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ANNOUNCEMENT OF  
FIRST SUMMER SESSION

JULY 5 TO AUGUST 16

1911

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ISSUED MONTHLY FROM OCTOBER TO JULY  
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### CALENDAR, 1911

June 13, Tuesday—Commencement Day.

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July 1, Saturday— } 9 a. m. to 5 p. m. Registration at the office  
July 3, Monday— { of the Registrar, McCoy Hall.

July 5, Wednesday—Instruction in all courses in the First Summer Session begins.

August 15, Tuesday—Courses of Instruction close.

August 16, Wednesday—Examinations and close of Summer Session.

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October 3, Tuesday—Thirty-sixth regular session begins.

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All work will begin promptly on Wednesday morning, July 5. It is important that students should reach Baltimore in time to be present at the opening exercises in each class. Registration may be made by mail prior to July 1.



ANNOUNCEMENT OF  
FIRST SUMMER SESSION

JULY 5 TO AUGUST 16

1911



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THE JOHNS HOPKINS UNIVERSITY  
SUMMER SESSION

OFFICERS OF ADMINISTRATION  
1911

IRA REMSEN, PH. D., LL. D.  
*President of the University*

EDWARD FRANKLIN BUCHNER, PH. D.  
*Professor of Education and Philosophy*  
*Director of the Summer Session*

THOMAS R. BALL  
*Registrar*

INSTRUCTORS

RONALD T. ABERCROMBIE *School Hygiene*  
A. B., Johns Hopkins University, 1901, and M. D., 1905; Director of the  
Gymnasium.

JOHN A. ANDERSON *Physics*  
S. B., Valparaiso College, 1900; Fellow, Johns Hopkins University, 1906-07,  
and Ph. D., 1907; Associate in Astronomy.

EDWARD F. BUCHNER *Education*  
A. B., Leander Clark College, 1889, and A. M., 1892; Ph. D., Yale University,  
1893, and Lecturer and Instructor in Philosophy and Pedagogy, 1892-97;  
Professor of Analytical Psychology, New York University, 1896-01; Docent,  
Clark University, 1901-03; Professor of Philosophy and Education, University  
of Alabama, 1903-08; Professor of Education and Philosophy.

WILLIAM PAXTON BURRIS *Education*  
Ph. B., DePauw University, 1891, and A. M., 1894; A. M., Harvard Uni-  
versity, 1901; Superintendent of Public Schools, Bluffton, Indiana, 1891-97;  
Superintendent of Public Schools, Salem, Ohio, 1897-1900; Scholar in  
Teachers' College, Columbia University, 1901-02; elected Fellow *ibid.* in 1903;  
Principal, Teachers' Training School, Albany, N. Y., 1902-05; Professor of  
the History and Philosophy of Education, and Dean of the College for  
Teachers, University of Cincinnati.

JOHN C. FRENCH *English*  
A. B., Johns Hopkins University, 1899, Fellow, 1903-04, and Ph. D., 1905;  
Associate in English.

HANS FROELICHER *German*  
Ph. D., University of Zürich, 1886; Professor of the German Language and  
Literature and of Art Criticism, Goucher College.

GEORGE M. GAITHER *Manual Training*  
Instructor in Carpentry and Woodcarving, Baltimore Polytechnic Institute;  
Supervisor of Manual Training Centres, Baltimore Public Schools; Supervisor  
of Boys' Industrial Work in Vacation Schools, New York City, 1904-08.

**J. ELLIOTT GILPIN***Chemistry*

A. B., Johns Hopkins University, 1889, and Ph. D., 1892; Associate in Chemistry.

**AGNES ELLEN HARRIS***Domestic Science*

Oread Institute, 1901; Georgia Normal and Industrial College, 1902; Teachers' College, Columbia University, 1910-11; Director, Department of Home Economics, Florida State College for Women.

**CLIFTON F. HODGE***Biology*

A. B., Ripon College, 1892; Fellow, Johns Hopkins University, 1888-89, and Ph. D., 1889; Instructor in Biology, University of Wisconsin, 1891-92; Assistant Professor of Physiology and Neurology, Clark University, 1892-06, and Professor, 1906—; Professor of Biology, Clark College.

**LORRAIN S. HULBURT***Mathematics*

A. B., University of Wisconsin, 1883, and A. M., 1888; Professor of Mathematics, University of South Dakota, 1887-91; Fellow, Clark University, 1891-92; Ph. D., Johns Hopkins University, 1894; Collegiate Professor of Mathematics.

**FRANK A. MANNY***Education*

A. B., University of Michigan, 1893, A. M., 1896; studied graduate schools, University of Chicago, Columbia University, and European schools, 1906-07; Principal, High School, Moline, Ill., 1894-96; Assistant in Pedagogy, University of Chicago, 1896-97; Supervisor of Public Schools, Indianapolis, 1897-98; Head Educational Department, State Normal School, Oshkosh, Wis., 1898-1900; Superintendent, Ethical Culture Schools, New York, 1900-06; Head of Educational and Extension Departments, Western State Normal School, Kalamazoo, Mich.

**WILFRED P. MUSTARD***Latin*

A. B., University of Toronto, 1886, A. M., 1890, and Fellow, University College, 1886-89; Fellow, Johns Hopkins University, 1890-91, and Ph. D., 1891; American School of Classical Studies in Rome, 1902-03; Professor of Latin in Colorado College, 1891-93; Instructor in Haverford College, 1893-94, and Professor of Latin, 1894-1907; Collegiate Professor of Latin.

**JOSEPH S. SHEFLOE***French*

A. B., Luther College, 1885, and A. M., 1889; University Scholar and Fellow, Johns Hopkins University, 1888-90, Ph. D., 1890, and Fellow by Courtesy, 1890-91; Professor of Romanic Languages, Goucher College.

**ST. GEORGE L. SIOUSSAT***History*

A. B., Johns Hopkins University, 1896, and Ph. D., 1899; Instructor, Smith College, 1899-04; Professor of History, University of the South.

**HENRY S. WEST***English*

A. B., Johns Hopkins University, 1893, Fellow, 1898-99, Ph. D., 1899, and Instructor in English, 1899-00; Professor of English, Baltimore City College, 1894-97 and 1900; Principal, Western High School, Baltimore, 1900-06; Assistant to the Superintendent of Schools, Baltimore.



## GENERAL STATEMENT

The first summer session of the Johns Hopkins University will open on Wednesday, July 5, and continue until Wednesday, August 16, inclusive. Exercises in each subject will be held every week-day except Saturday. Each course will consist of thirty class exercises, or their equivalent in laboratory work. Each course of instruction will conclude with an examination, to be given on the last day of the summer session.

As the summer session is authorized by the Trustees, and its credits accepted by the Board of Collegiate Studies, it is an integral part of the work of the University. All the resources of the institution essential to the conduct of the summer session are placed at the disposal of the students. These resources include the use not only of the academic buildings, but also of the general and departmental libraries, laboratories, and gymnasium.

The principal object of the University in making provision for a summer session is to furnish instruction to teachers in all grades of schools, and to other persons who seek opportunities for instruction, with or without reference to an academic degree. Some courses offered are designed to meet the needs of matriculated students who wish to advance their standing or to make up deficiencies; others, to enable non-matriculated students to absolve in part the entrance requirements.

No opportunity for graduate instruction is offered in the first summer session.

## CHARACTER OF INSTRUCTION

The courses of instruction, with but few exceptions, are collegiate courses, and the same standard is maintained

as in the courses of the regular session. In addition to the regular class exercises, each instructor holds a daily conference, in which the work of his course is supplemented and adapted to the particular needs of individuals.

#### SCHOOL OF OBSERVATION

It is expected that an elementary school will be in operation and available for observation in connection with the courses in education, thus affording opportunity to superintendents, principals, supervisors and critic teachers to consider concrete problems in elementary instruction.

#### ACADEMIC CREDIT

For the satisfactory completion of any course of collegiate grade in the summer session, a credit of one-third of a regular college course will be allowed to matriculated students, or candidates for matriculation, in this University. Not more than two courses may be offered for credit in one summer session.

Students in the summer session not matriculated in the University may receive certificates of attendance and satisfactory work done.

Of the courses announced below, the following are of collegiate grade: Biology 1 and 2, Chemistry 1 and 2, English Composition 1 and 2, English Literature 1 and 2, French 2, German 2, History 2, Mathematics 2. The amount of credit allowed for Chemistry 3 is one-fourth of a regular college course.

The following courses are of secondary grade: French 1, German 1, History 1, Latin 1 and 2, Mathematics 1, and Physics 1 and 2.

#### ADMISSION AND ATTENDANCE

There are no formal examinations for admission to the summer session. Students, both men and women, will be

admitted to such courses as they are found qualified by the respective instructors to pursue with advantage.

The summer session will open promptly on July 5, carrying out the schedule provided on page 23. Students are advised to register in advance of the opening.

The Registrar's office (McCoy Hall, first floor) will be open for registration of students on Saturday, July 1, Monday, July 3, and Wednesday, July 5, from 9 a. m. to 5 p. m. Students should register without delay. After July 7, admission to each course will be restricted to registered students. After July 10, no change of courses will be allowed.

All fees, including both tuition and special laboratory fees, must be paid to the Treasurer immediately after registration.

#### LOCATION

The summer session will be held in the University buildings, which are situated on Monument street and Druid Hill avenue between Howard and Eutaw streets.

The instruction in Manual Training and Domestic Science will be given in Public School No. 79, Park avenue and Hoffman street.

#### EXPENSES

The tuition fee is \$25.00, payment of which entitles the student to attend as many as three courses. Under very exceptional circumstances, a student may register in one course only. The tuition fee in such cases will be \$15.00.

Additional fees are required for materials used in some of the courses. (For details, see statement of courses.) No reduction of fee will be allowed for late entrance, or for withdrawal, except on account of illness or other serious and unavoidable causes.

## BOARD AND LODGING

The University has no dormitories. Comfortable furnished rooms in private homes in the vicinity of the University are offered for rent at prices ranging from \$1.50 to \$3.00 per week for a single room, and \$3.00 to \$7.00 a week for a suite of rooms. Board can be had in private boarding-houses or in public restaurants at prices ranging from \$3.50 to \$5.00 per week. A printed list of boarding and lodging houses will be sent upon request.

## UNIVERSITY POST-OFFICE

The University post-office in McCoy Hall will be open during the summer session. Students may have their mail addressed to them in care of the Johns Hopkins University.

## SPECIAL RAILROAD RATES

Application has been made for reduced railroad rates for students in attendance at the summer session.

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# COURSES OF INSTRUCTION

## BIOLOGY

The chief aim of the courses in biology, especially designed for teachers in the grades and for teachers in academies and high schools, will be to develop a point of view which shall give a teacher ability, wherever placed, to organize the important elements in the natural environment of his school into a course which shall be of vital human interest to his pupils. Both courses will consist of round-table discussions and lectures, as informal as possible, each one hour daily, supplemented by laboratory exercises. These latter will consist of out-of-door problem-solving, observation, acquaintance and study of things alive and at work in their normal environment. A good deal of this work may be done excursion-wise, if size of classes and hours permit.

### 1. NATURE STUDY OF ANIMALS AND PLANTS. PROFESSOR HODGE. Biological Laboratory.

The center of interest in this course is the vital needs of the child in the home, the things in the natural environment of the home the knowledge of which will stimulate most normal growth and highest enjoyment of the common home life. First comes conservation of health of child and home, then relations of children to animal life, proper care of pets and acquaintance with the wild life of the neighborhood; then children's gardens, the rearing of flowers and vegetables, elementary agriculture and especially horticulture. This will lead naturally to acquaintance with insects and birds and the common garden fungi. Shore, fresh-water and marine life will also furnish capital material for nature lessons in the neighborhood of Baltimore.

Text-book: Hodge's Nature Study and Life (Ginn & Co.).

### 2. CIVIC BIOLOGY. PROFESSOR HODGE. Biological Laboratory.

The focus of interest here shifts to the needs of the community. Public sanitation now takes the place of home hygiene, and civic

improvement and conservation of community, and national resources of home industry. The course will attempt to answer the question: What does a town, city or state require efficient citizens to know concerning the forces of living nature? This, it is believed, will offer a solution of the problems of high school biology which shall not encroach upon the college course and still supply a much needed preparation for it, and, as well, for the duties of active citizenship.

## CHEMISTRY

### 1. INTRODUCTION TO GENERAL CHEMISTRY. DR. GILPIN. Chemical Laboratory.

No previous knowledge of chemistry is required for this course. It will include, as far as possible in the time allowed, a study of the more important non-metallic and metallic elements and their properties. Remsen's Chemistry (Briefer Course) will be used as a basis for the class room and laboratory work.

Special emphasis will be laid on the laboratory work, and the student will be encouraged to attain such familiarity with some of the more important chemical substances and their behavior and with methods of laboratory practice as can only be secured by personal conference and experimentation in the laboratory.

*Laboratory work, 15 hours weekly.*

### 2. INORGANIC CHEMISTRY, WITH SPECIAL REFERENCE TO QUALITATIVE ANALYSIS. DR. GILPIN. Chemical Laboratory.

This course will consist of three lectures each week on the principles of qualitative analysis and a discussion of the physical-chemical laws upon which the practices of qualitative analysis are based. Alexander Smith's General Inorganic Chemistry will be used as a text.

The student will be trained in the methods of qualitative analysis by means of a variety of mixtures, natural minerals and ores, to be supplemented by explanations of the chemical principles and reactions involved.

*Laboratory work, 16-18 hours a week.*

### 3. LABORATORY WORK IN INORGANIC OR ORGANIC PREPARATIONS. DR. GILPIN. Chemical Laboratory.

This course may be followed by persons who have had the necessary preliminary chemical training. It will consist of labor-

atory work, fifteen hours weekly, based on Remsen's Organic Chemistry, and such outside reading as may be deemed advisable by the instructor.

Laboratory Fees: \$8.00 for each course, if taken along with other subjects; \$10.00, if all the student's time is given to Chemistry.

## DOMESTIC SCIENCE

### 1. FOODS AND COOKERY. MISS HARRIS. Public School No. 79.

Demonstrations, lectures and laboratory work.

This course includes: Laboratory practice in the fundamental cooking processes, together with lectures and demonstrations, with reference to the principles of chemistry and physics that underlie food preparation; a consideration of the comparative costs and nutritive values of food materials.

Students in this course who expect to become Domestic Science teachers are advised to take Chemistry 1 as a parallel course. Laboratory fee, \$5.00.

### 2. DOMESTIC SCIENCE TEACHING. MISS HARRIS. Public School No. 79.

This course considers methods of presenting Domestic Science in Elementary and Secondary Schools. It includes a study of Laboratory Equipment and Management, with a consideration of marketing for School Laboratories. Courses of study are discussed, together with planning and presentation of lessons. Course 1, or its equivalent, prerequisite or parallel. Laboratory fee, \$2.00.

## EDUCATION

### 1. EDUCATION IN MODERN TIMES. PROFESSOR BURRIS. McCoy Hall.

An interpretation of educational practice, ideals, and tendencies, particularly in American public schools, is undertaken. As a historical background for this course, there will be lectures covering the period since the beginning of the seventeenth century, in sketch, with special attention to those influences—political, religious, philosophical, scientific, industrial—which have been most powerful in shaping popular education as we find it at the present time.

Supplementary to the lectures, parallel reading will cover the work of men who prepare the way for educational advance. In this manner students will extend their understanding of the essential contributions of Bacon, Comenius, Locke, Rousseau, Pestalozzi, Herbart, Froebel, Mann, Spencer, Harris, Hall, and Dewey.

The worth of the educational principles formulated by these men will be considered with reference to the needs of the individual, as such, on the one hand, and to him in his relations in society, on the other. In view of the very practical purpose of the course in promoting professional improvement of teachers, it will conclude with statements of some of the most pressing educational problems in our day, and with some suggestions as to the direction in which we must seek help in solving them.

Text-books: Monroe's *Briefer Course in the History of Education* and Henderson's *Text-book in the Principles of Education*. (Both the Macmillan Co.)

## 2. EDUCATIONAL PSYCHOLOGY. PROFESSOR BUCHNER. McCoy Hall.

This course of lectures, discussions and required readings is designed to provide opportunity for the study of the principles of general psychology in their application to education and teaching, the chief feature of mental development in childhood and youth, and the special psychology of the more common school subjects and activities. The scope of the work will be determined in accordance with the knowledge of psychology possessed by the students.

## 3. ORGANIZATION AND ADMINISTRATION OF SCHOOLS. PROFESSOR MANNY. Levering Hall.

The organization and administration of schools have definite relations to a number of special fields. While the course has greatest significance for students who are directly concerned with executive work, or who are looking to the attainment of such positions, it is prepared also with reference to the needs of several classes, among which are (1) members of school boards or committees; (2) teachers who wish to see their particular work in larger relations; (3) those interested in other forms of social service who are brought into touch with educational problems.

The central idea of the course will be the movement toward increased efficiency and greater economy in the school. This will be studied in relation to the municipality and the district (commission form of government); school persons (expert requirements, from board members to janitors); experimentation (con-



tinuation schools, open air schools, Chicago course); division of labor between elementary, secondary and higher schools; curriculum; hygiene; reports; records and accounts; grading and promotion; special schools; pupils' and teachers' organization.

Each student will be expected to choose for special study certain definite topics, in which he can gain considerable control of the problems and their material.

Students interested in the course are invited to send communications to the Instructor in advance with reference to special topics and preparatory reading.

Text-book: Chancellor's "Our Schools, Their Administration and Supervision" (Heath & Co.), or Dutton & Snedden's "Administration of Public Education in the United States" (the Macmillan Co.).

#### 4. PRINCIPLES AND PROBLEMS OF SECONDARY EDUCATION. PROFESSOR BURRIS. McCoy Hall.

The purpose, means, methods, and management of secondary schools considered as an integral part of the American system of education.

Historical sketch of the growth of secondary education in the United States—Conflicting demands which have retarded the definition of an unique function for this type of school—Comparison with foreign secondary schools—The election of studies vs. the election of schools.

Ideals and tendencies of the American secondary school considered as a phase of individual and social development during the adolescent period—Its relation to other types of school, lower and higher—Differences in motive, studies, methods and organization.

What are secondary studies—Basis for choosing in the past—How the selection is influenced by recent changes in general educational theory—Organization of studies into curricula.

To what extent is there a general method of teaching applicable to secondary studies—Special methods as determined by "the law of the mind and the thought in the thing"—Relative worth of culture, discipline, pleasure and value as motives—The teacher's professional preparation and equipment.

Problems involved in the discipline and social life of the secondary school—The question of self-government—Coeducation vs. segregation—Prescription vs. election—Athletics and student organizations—Examinations, promotion and graduation.

## 5. THE ELEMENTARY SCHOOL. PROFESSOR MANNY. Levering Hall.

In this course there will be an attempt to differentiate the distinctive work of the school in the periods before adolescence. The major portion of the time will be given to immediate problems of the course of study and the machinery of grading, promotion, individual and class instruction, supervision. The aim will be to carry method and subject-matter back to the motives and needs calling for them. These can best be studied on the one hand in the interests, activities and occupations of the pupils, and on the other in the changing social conditions which call for varied emphasis in control.

While limited time will prevent giving much attention to the historical development of elementary education, each student will be expected to keep in mind the matter of background for the problems he studies, and to bring to them whatever material he has worked upon which has bearing upon them.

Critical studies will be made of the literature of the subject as found in periodicals, books, reports, courses of study, extra-school movements as the Boy Scouts. Each student will do at least a small amount of constructive curriculum work.

Anyone interested in the work of this course is invited to write to the instructor if he wishes aid in planning for special problems and material in advance.

## 6. SCHOOL HYGIENE. DR. ABERCROMBIE. McCoy Hall.

A course designed for the elementary school-teacher to enable him to understand the general principles of Hygiene and its practical bearing on the educational and personal interests of the children who come under his care, and to give him an opportunity of acquiring such information as may assist in protecting and improving the health of the school children, and in a degree to show how to detect some diseases likely to be met with in the school.

The principal topics are as follows:

The Body as a whole—Its Anatomy and Physiology—The skeleton, the muscles, the vital organs, growth and waste, fatigue, relaxation. Digestion—Circulation, secretions, excretions, body heat, nutrition, special senses, the nerves.

Hygiene, Personal—Care of the body, health and disease, activity, development, deformities and corrections, feeding, stimulants, care of special parts, clothing, bathing.



Hygiene, School—Building, position, size, material, rooms, lavatories, ventilation, warming, lighting, sanitation, cleaning, water supply, drainage, garbage, rubbish, furniture.

Infection and communicable diseases.

Medical inspection of schools—The teacher's part.

Text-book: Hough & Sedgwick's "The Human Mechanism" (Ginn & Co.).

## ENGLISH COMPOSITION

### 1. INTRODUCTORY COURSE IN DICTION AND STRUCTURE.

DR. FRENCH. McCoy Hall.

The work of this course will include the study, by means of text-book and lectures, of the principles of rhetoric as they apply to the choice of words and the structure of sentences, paragraphs, and whole compositions. Attention will be paid incidentally to English spelling, punctuation, and the forms of letters. Frequent short themes, several essays, and occasional exercises in class will be written. Regular conferences with the instructor will constitute a part of the course.

Students should provide themselves with Espenshade's Composition and Rhetoric. (D. C. Heath & Co.)

### 2. ADVANCED COURSE IN ENGLISH COMPOSITION. DR.

FRENCH. McCoy Hall.

In this class the forms of discourse will be considered, with special emphasis on expository writing. The prose writings of selected authors will be studied as models. As in Course 1, constant drill in writing will be provided for, and themes will be criticised in the class room (anonymously) and in private conferences. This course is open to those who have taken Course 1 or its equivalent.

## ENGLISH LITERATURE

### 1. ENGLISH POETRY IN THE AGE OF WORDSWORTH. DR.

WEST. McCoy Hall.

A study will be made of the course of English poetry from the publication of *Lyrical Ballads* (1798) to the appearance of Tennyson's *Poems Chiefly Lyrical* (1830). Some of the topics for particular consideration will be: The course of the movement known as the Romantic Revolution in English poetry; differences between romanticism and classicism; variety and freedom of

verse forms employed in the new poetry; the romantic leaders' theories of poetry; the romantic poets' attitude toward nature and toward man; the poetry of social revolt; the poetry of ideal beauty; anti-romantic poems; poetical romances and tales of the "epic revival;" the extreme of lyric delicacy and power; efforts in dramatic expression; ballads, odes, sonnets, songs, satires, elegies of the period; an age of creative poetry second only to the Elizabethan era. Special study will be devoted to the poems of Wordsworth, Coleridge, Southey, Scott, Hogg, Byron, Shelley, Keats, Crabbe, Rogers, Campbell, Moore, Elliott, Hunt, Landor.

Text-books: Herford's *Age of Wordsworth* and Page's *British Poets of the Nineteenth Century*.

## 2. ENGLISH LITERATURE DURING THE FIRST HALF OF THE EIGHTEENTH CENTURY. DR. WEST. McCoy Hall.

A survey will be made of the course of English literature in both prose and verse from Defoe's *Essay on Projects* (1697) to Gray's *Elegy in a Country Churchyard* (1751). The chief topics for consideration will be: The "Classical Age" of English literature or England's "Augustan Age;" the literary situation in England on the death of Dryden; the sentimental comedy as a reaction from the dramatic licentiousness of the preceding generation; the periodical essay of the Queen Anne era; the last precursors of the modern novel and the earliest actual novels; the height of prose satire; the perfection of "classicism" in poetry; the English heroic couplet; the lighter poetry of the period—"society verse," metrical fables, versified satires and burlesques; pioneers of the revival of romantic and imaginative poetry; significance of the period in the history of English prose. Special study will be made of the writings of Defoe, Steele, Addison, Swift, Pope, Prior, Gay, Young, Thomson, Collins, Gray, Richardson, Fielding.

Text-books: Dennis's *Age of Pope* and Gosse's *English Literature in the Eighteenth Century*.

## FRENCH

### 1. ELEMENTARY FRENCH. PROFESSOR SHEFLOE. McCoy Hall.

An elementary course designed for students who have no knowledge of the language. The work will consist of a study of the grammatical forms and the essentials of syntax, and an extensive

reading of suitable texts, with the end in view of a rapid enlargement of the student's vocabulary and familiarity with French idioms.

Books: Fraser and Squair, *French Grammar*; Laboulaye, *Contes Bleus*; Labiche et Martin, *Le Voyage de Monsieur Perri-chon*; About, *La Mère de la Marquise*; Bowen, *Modern French Lyrics*.

## 2. FRENCH LITERATURE. PROFESSOR SHEFLOE. McCoy Hall.

A collegiate course open to students who have a sufficient knowledge of the language to be able to read it fluently. The work will deal with the Romantic movement in France during the first half of the nineteenth century, and the following books will be read: Chateaubriand, *Atala*, *René*; Madame de Staël, *Pages choisies* (Rocheblave); Lamartine, *Méditations* (Curme); Hugo, *Choix de Poésies* (Steeg), *Hernani* (Matzke); De Musset, *Poetry and Comedies* (Kuhns).

In addition to the class work, a certain amount of private reading will be required in works of literary criticism pertaining to the subject under consideration.

Exercises in prose composition will form a distinct part of the work.

(NOTE.—After the class has been organized, the work of the course may be somewhat changed, in order to adapt it to the immediate needs of the members.)

## GERMAN

### 1. ELEMENTARY GERMAN. PROFESSOR FROELICHER. McCoy Hall.

Composition; Grammar; Reading of short stories, selected from the works of C. F. Meyer, G. Keller, Sudermann, Hoffmann, Heyse.

Text books: Vos, *Essentials of German*; Bacon, *Im Vaterland*.

### 2. GERMAN LITERATURE. PROFESSOR FROELICHER. McCoy Hall.

A collegiate course open to students who are able to read and write German with some facility. Readings in the modern German drama; literary criticism and the study of dramatic form; history of the German drama in the nineteenth century. Selections from the works of the following authors will be read: Grillparzer, Hebbel, Ludwig, Sudermann.

The writing of themes in German, oral practice based on subjects from daily life, and training in grammar will form a part of the work.

(NOTE.—The work of this course may be modified after the organization of the class, in order to meet the special needs of the members.)

## HISTORY

### 1. AMERICAN HISTORY TO 1865. PROFESSOR SIOUSSAT. McCoy Hall.

Beginning with a brief treatment of the Age of Discoveries and the struggles of European nations for dominion in North America, this course will emphasize the growth of the English colonies in America, the causes leading to the Revolution and independence, the evolution of self-government through the State constitutions, the Articles of Confederation and the Federal Constitution. After a careful study of the new government erected in 1789, the interplay of sectional and national forces will be discussed along both political and economic lines to the period of the Civil War.

Text-book: Macdonald's "Documentary Source Book of American History."

### 2. EUROPEAN HISTORY, 1763-1848. PROFESSOR SIOUSSAT. McCoy Hall.

While emphasizing more particularly the development of the French and English peoples, this course will give an outline of general European history from the Peace of Paris through the Revolutions of 1848. As a guide, the work of Robinson & Beard, "The Development of Modern Europe," with the "Readings" (both published by Ginn & Co.), will be used.

## LATIN

### 1. CAESAR. PROFESSOR MUSTARD. McCoy Hall.

An introductory course, beginning with the first chapter of the Gallic War. This course presupposes a working knowledge of all regular inflections, of all common irregular forms, and of the ordinary principles of Latin syntax. Special attention will be paid to the pronunciation of Latin. Short exercises (both oral and written) will be given in Latin Composition.

Text-book: Cæsar, Gallic War, I-IV, ed. C. E. Bennett (Allyn & Bacon).



**2. VIRGIL'S AENEID. PROFESSOR MUSTARD. McCoy Hall.**

A detailed study of books II and VI. Special attention will be paid to prosody, to Virgil's literary art, and to his place and influence in literature. Each student will be assigned some special topic for individual study, the results of which will be summarized and reported in the class.

Text-book: Virgil, *Aeneid*, I-VI, ed. Fairclough & Brown (B. H. Sanborn & Co.).

## MANUAL TRAINING AND MECHANICAL DRAWING

Realizing the great demand for trained teachers of hand work in every locality, and believing that the demand will increase owing to the extension of this subject in the various schools, a course in elementary and advanced hand work is offered to assist and to train those who would otherwise find it impossible to obtain adequate instruction necessary to the successful teaching of this subject.

Its purpose is to help those who contemplate entering this field to acquaint themselves with methods and practice of manual training, giving them the fundamental processes and a working knowledge of the subject with which to make a beginning. A more advanced course is arranged for those teachers who have already acquired a fundamental knowledge of manual training.

Conferences on subjects of importance to manual training teachers will be held in connection with both courses.

**1. ELEMENTARY MANUAL TRAINING. MR. GAITHER, Public School No. 79.**

Construction in paper, cardboard, weaving, raffia, basketry, simple book-binding and elementary wood-work. Representative projects in each will be carried out. This course includes handwork processes suitable for the first six years of the elementary schools.

The course is planned especially to meet the needs of the regular grade teacher, but will also be helpful to others who wish to become familiar with this work as it is carried on in the elementary schools. The models given are such as can be easily reproduced in the regular class-room with a simple equipment.

The following topics will be emphasized: Practical work and study of methods. Materials at hand in the various localities and their value. Planning equipment and supplies. Cost. Outline of course.

Laboratory fee \$1.50.

2. BENCH WORK IN WOOD AND MECHANICAL DRAWING.  
MR. GAITHER, Public School No. 79.

This course, employing a comprehensive set of bench work tools, and including the elements of joinery and carpentry, and mechanical drawing, is planned to prepare the student for teaching bench work in wood in the upper grades of the elementary schools and the lower grades of the secondary schools.

The following topics will be emphasized: Practical instruction in the use of tools; Problems involving the various processes of the work suggested by the teacher and carried out by the class; Methods of class presentation and execution; Organization, planning of equipment and supplies; Cost; Outline of course.

The course in Mechanical Drawing will include the proper use of drawing instruments, and the making and the reading of simple working drawings, used in connection with the course in bench work in wood.

Laboratory fee, \$2.50.

## MATHEMATICS

1. ALGEBRA. PROFESSOR HULBURT. Physical Laboratory.

Beginning with quadratic equations, this course will cover Algebra (b) of the matriculation requirements.

2. PLANE ANALYTIC GEOMETRY. PROFESSOR HULBURT.  
Physical Laboratory.

This course will be the equivalent of the second half-year of the college course designated as Mathematics 1.

(NOTE.—Should there be sufficient demand for it, a class in Plane Trigonometry, meeting two or three times a week, may be organized.)

## PHYSICS

1. GENERAL PHYSICS: MECHANICS, SOUND AND HEAT.  
DR. ANDERSON. Physical Laboratory.

A course of lectures and demonstrations, supplemented with qualitative and quantitative experiments performed by the student.



## 2. GENERAL PHYSICS: OPTICS, ELECTRICITY AND MAGNETISM. DR. ANDERSON. Physical Laboratory.

A course of lectures and demonstrations, supplemented with qualitative and quantitative experiments performed by the student.

Text-book for both courses: Milliken and Gale's "First Course in Physics."

In both courses instruction will also be given in the art of constructing simple but efficient apparatus suitable for many elementary experiments in Physics.

(NOTE.—If students possessing sufficient mathematical preparation should present themselves, an advanced course in physics will be arranged.)

## SCHEDULE

Students are urged to select their subjects in accordance with the following schedule, which is not subject to change except to remove important conflicts:

8.30-9.20

Educational Administration  
English Composition 2  
French 2  
Latin 2  
Mathematics 2

9.30-10.20

Biology 1  
Education in Modern Times  
English Literature 1  
German 1  
History 1  
Physics 1

10.30-11.20

Biology 2  
Chemistry 1  
Educational Psychology  
English Composition 1  
French 1  
Latin 1  
Mathematics 1

11.30-12.20

Chemistry 2  
Domestic Science 2  
English Literature 2  
German 2  
History 2  
Manual Training 1  
School Hygiene

12.30-1.20

Elementary Education  
Physics 2  
Secondary Education

2.30-4.20

Biological Laboratory  
Chemistry 3  
Chemical Laboratory  
Domestic Science 1  
Manual Training 2  
Physical Laboratory

# THE JOHNS HOPKINS UNIVERSITY

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SUMMER COURSES  
JULY 1-AUGUST 12, 1913

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BALTIMORE, MARYLAND  
PUBLISHED BY THE UNIVERSITY  
ISSUED MONTHLY FROM OCTOBER TO JULY  
MARCH, 1913

[New Series, 1913, No. 3]  
[Whole Number, 253]

Entered, October 21, 1903, at Baltimore, Md., as second class matter, under  
Act of Congress of July 16, 1894.

## CALENDAR, 1913

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June 10, Tuesday—Commencement Day.

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June 28, Saturday— } 9 a. m. to 5 p. m., Registration at the office  
June 30, Monday— } of the Registrar, McCoy Hall.

July 1, Tuesday—8.30 a. m., Instruction in the Summer Courses begins.

July 4, Friday—Independence Day. All exercises suspended.

August 12, Tuesday—Examinations and close of Summer Courses.

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October 7, Tuesday—Thirty-eighth regular session begins.

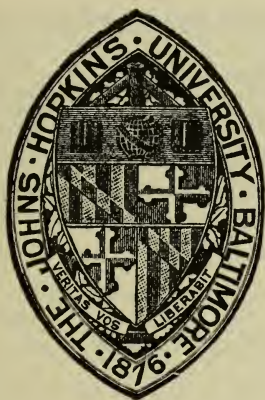
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~~All~~ All work will begin promptly on Tuesday morning, July 1. It is important that students should reach Baltimore in time to be present at the opening exercises in each class. Registration may be made by mail prior to June 28.

# SUMMER COURSES

1913

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THE JOHNS HOPKINS UNIVERSITY  
SUMMER COURSES

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OFFICERS OF ADMINISTRATION

WILLIAM H. WELCH, M. D., LL. D.  
*Chairman, Administrative Committee*

EDWARD F. BUCHNER, PH. D.  
*Professor of Education and Philosophy*  
*Director of the Summer Courses*

THOMAS R. BALL  
*Registrar*

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*Treasurer*



# THE JOHNS HOPKINS UNIVERSITY CIRCULAR

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New Series, 1913, No. 3

MARCH, 1913

Whole Number, 253

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## GENERAL STATEMENT

The third year of the Summer Courses of the Johns Hopkins University will open on Tuesday, July 1, and continue until Tuesday, August 12, inclusive. Exercises in each subject will be held every week-day except Saturday. With few exceptions, each course will consist of thirty class exercises. In the sciences laboratory work will be additional. Examinations will be held at the close of the courses.

As the summer courses are authorized by the Trustees, and their credits fixed by the Board of Collegiate Studies, they are an integral part of the work of the University. All the resources of the institution essential to their conduct are placed at the disposal of the students. These resources include the use not only of the academic buildings, but also of the general and departmental libraries, laboratories, and gymnasium.

The principal object of the University in making provision for the summer work is to furnish instruction to teachers in all grades of schools, and to other persons who seek opportunities for instruction, with or without reference to an academic degree. Some courses offered are designed to meet the needs of matriculated students who wish

to advance their standing or to make up deficiencies; others, to enable non-matriculated students to absolve in part the entrance requirements.

#### CHARACTER OF INSTRUCTION

The courses maintain the standard of instruction which characterizes the work of the regular session in the subjects representing collegiate departments, as well as in those introduced to meet the special needs of teachers. In addition to the regular class exercises, each instructor holds a daily conference, in which the work of his course is supplemented and adapted to the particular needs of individuals.

#### DEMONSTRATION AND OBSERVATION SCHOOLS

There will be conducted at the University during the session an elementary school of seven grades, designed primarily to demonstrate typical means and material for more effective teaching in rural schools.

It is also expected that graded vacation schools will be in operation in the city and available for observation in connection with some of the work in the courses in education.

Opportunity will thus be afforded superintendents, principals, supervisors and teachers to consider concretely many problems in elementary instruction.

#### ACADEMIC CREDIT

Of the courses given in one summer session, matriculated students, or candidates for matriculation, in this University may offer for credit not more than two courses in collegiate subjects. In such cases registration and attendance will be strictly limited to the courses so to be offered.

For the satisfactory completion of the work of any course a credit of not more than one-half a regular course will be allowed. The exact amount of credit earned by each student will be determined by the instructor according to the work accomplished, subject to the approval of the Director.

Students not matriculated in the University may receive certificates of attendance and of the amount of work satisfactorily performed. These certificates will indicate the value of the work done in each course, and in most instances will meet the requirements of superintendents and school boards as records of summer study.

#### ADMISSION AND ATTENDANCE

There are no formal examinations for admission. Students, both men and women, will be admitted to such courses as they are found qualified by the respective instructors to pursue with advantage.

The session will open promptly on July 1, carrying out the schedule provided on page 3 of cover. Students are advised to register in advance of the opening.

The Registrar's office (McCoy Hall, first floor) will be open for registration of students on Saturday, June 28, Monday, June 30, and Tuesday, July 1, from 9 a. m. to 5 p. m. Students should register without delay. After July 7, admission to each course will be restricted to registered students. After July 9 no change of courses will be allowed.

All fees, including both tuition and special laboratory fees, must be paid to the Treasurer immediately upon registration.

#### LOCATION

The University buildings are situated on Monument street and Druid Hill avenue, between Howard and Eutaw streets.

By courtesy of the Baltimore Board of School Commissioners, the instruction in Manual Training and Domestic Science will be given in Public School No. 79, Park avenue and Hoffman street.

#### EXPENSES

The tuition fee is \$25.00, payment of which entitles the student to attend as many as three courses. Under very exceptional circumstances, a student may register in one course only. The tuition fee in such cases will be \$15.00.

Additional fees are required for materials used in some of the courses. (For details, see statement of courses.) No reduction of fee will be allowed for late entrance; nor for withdrawal, except on account of illness or other serious and unavoidable causes.

#### BOARD AND LODGING

The University has no dormitories. Comfortable furnished rooms in private homes in the vicinity of the University are offered for rent at prices ranging from \$1.50 to \$3.00 per week for a single room, and \$3.00 to \$7.00 a week for a suite of rooms. Board can be had in private boarding-houses or in public restaurants at prices ranging from \$3.50 to \$5.00 per week. A printed list of boarding and lodging houses will be sent upon request.

#### LECTURES AND RECITALS

In addition to the social opportunities afforded by the opening and closing receptions, students are invited to the lectures and recitals which will be given every Friday evening, in co-operation with the Summer Session of the Peabody Conservatory of Music.

## EXCURSIONS

Saturday excursions will be made to Annapolis, the State capital, and to Washington, both within an hour's ride by trolley, and to points of interest in and about Baltimore.

## UNIVERSITY POST-OFFICE

The University post-office, in McCoy Hall, will be open. Students may have their mail addressed to them in care of the Johns Hopkins University.

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## INSTRUCTORS

ANNA BROCHHAUSEN

*Education*

A. B., Indiana University, 1907; Director of Practice (1893-1901) and Supervising Principal, Indianapolis Public Schools.

EDWARD F. BUCHNER

*Education*

A. B., Leander Clark College, 1889, and A. M., 1892; Ph. D., Yale University, 1893, and Lecturer and Instructor in Philosophy and Pedagogy, 1892-97; Professor of Analytical Psychology, New York University, 1896-1901; Docent, Clark University, 1901-03; Professor of Philosophy and Education, University of Alabama, 1903-08; Professor of Education and Philosophy.

ALBERT S. COOK

*Education*

A. B., Princeton University, 1895, and A. M., 1906; Principal, Belair Academy and Graded Schools, 1895-98; Principal, Franklin High School, Reisterstown, 1898-1900; Superintendent of Schools, Baltimore County, Md.

FLETCHER B. DRESSLAR

*Education*

A. B., Indiana University, 1889, and A. M., 1892; Ph. D., Clark University, 1894; Professor of Psychology and Education, State Normal School, Los Angeles, 1894-97; Assistant and Associate Professor of Science and Art of Teaching, University of California, 1897-1909; Dean and Professor, School of Education, University of Alabama, 1909-11; Chief of the Division of School Hygiene and Sanitation, United States Bureau of Education, and Professor of Education and School Hygiene, George Peabody College for Teachers.

JOHN C. FRENCH

*English*

A. B., Johns Hopkins University, 1899; Fellow, 1903-04, and Ph. D., 1905; Associate in English.

GEORGE M. GAITHER

*Manual Training*

Supervisor of Boys' Industrial Work in Vacation Schools, New York City, 1904-08; Instructor in Carpentry and Wood Carving, Baltimore Polytechnic Institute; Supervisor of Manual Training Centres, Baltimore Public Schools.

ROBERT M. GAY

*English*

A. B., Brooklyn Polytechnic Institute, 1900; A. M., Columbia University, 1901; Associate Professor of English, Goucher College.

J. ELLIOTT GILPIN

*Chemistry*

A. B., Johns Hopkins University, 1889, and Ph. D., 1892; Associate Professor of Chemistry.

JOHN P. GIVLER

*Biology*

Ph. B., Hamline University, 1906, and A. M., 1912; Graduate Student, Johns Hopkins University, and Student-Assistant in Zoology, 1906-07, 1909-10; Instructor in Zoology, Haverford College, 1910-11; Professor of Biology, Southwestern Kansas College.

AGNES ELLEN HARRIS

*Domestic Science*

Oread Institute, 1901; Georgia Normal and Industrial College, 1902; B. S., Columbia University, 1911; Director, Department of Home Economics, Florida State College for Women.



## LORRAIN S. HULBURT

*Mathematics*

A. B., University of Wisconsin, 1883, and A. M., 1888; Professor of Mathematics, University of South Dakota, 1887-91; Fellow, Clark University, 1891-92; Ph. D., Johns Hopkins University, 1894; Collegiate Professor of Mathematics.

## FLORENCE M. LANE

*Education*

S. B., Teachers' College, Columbia University, 1910; Teacher in Horace Mann Model School and Tutor in Psychology, Columbia University, 1909-10; Teacher in Charge of Model Rural School, First District Normal School, Kirksville, Mo.

## RALPH V. D. MAGOFFIN

*History and Latin*

A. B., University of Michigan, 1902; Fellow, American School of Classical Studies, Rome, 1906-07; Fellow, Johns Hopkins University, 1907-08, and Ph. D., 1908; Associate in Greek and Roman History.

## C. CARROLL MARDEN

*French*

A. B., Johns Hopkins University, 1889, and Ph. D., 1894; Instructor, University of Michigan, 1890-91; Professor of Spanish.

## EDWIN MIMS

*English Literature*

A. B., Vanderbilt University, 1892, and A. M., 1893; Ph. D., Cornell University, 1900; Professor of English Literature, Trinity College (N. C.), 1894-1909; Professor of English Literature, University of North Carolina, 1909-12; Head of the Department of English, Vanderbilt University.

## WILLIAM S. MYERS

*History and Politics*

A. B., University of North Carolina, 1897; Ph. D., Johns Hopkins University, 1900; Master of History, Gilman Country School, 1900-06; Assistant Professor of History and Politics, Princeton University.

## AUGUST H. PFUND

*Physics*

S. B., University of Wisconsin, 1901; Fellow, Johns Hopkins University, 1905-06; Ph. D., 1906; Assistant, 1906-07, and Johnston Scholar, 1907-09; Associate Professor of Physics.

## SAMUEL C. SCHMUCKER

*Biology*

A. B., Muhlenberg College, 1882; A. M., 1885, and M. S., 1891; Ph. D., University of Pennsylvania, 1893; Professor of Natural Science, Carthage College, 1883-84; Professor of Natural Science, Indiana Normal School, Pa., 1889-95; Professor of Biology, State Normal School, West Chester, Pa.

## JOSEPHINE B. STUART

*Education*

Principal, Teachers' Training School, Pawtucket, R. I., 1886-87; Principal, Teachers' Training School, Portsmouth, N. H., 1887-89; Principal, Normal and Training School, New Bedford, Mass., 1889-1900; Graduate Instructor in Methods of Teaching, Wellesley College, 1902-04; Assistant Superintendent of Schools, New Bedford, Mass.

## HENRY WOOD

*German*

A. B., Haverford College, 1869; Ph. D., University of Leipzig, 1879; Knight of the Royal Prussian Order of the Red Eagle, 1910; Professor of German.

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## COURSES OF INSTRUCTION

### BIOLOGY

The chief aim of the courses in biology, especially designed for teachers in the grades and for teachers in academies and high schools, will be to develop a point of view which shall give a teacher ability, wherever placed, to organize the important elements in the natural environment of his school into a course which shall be of vital human interest to his pupils. Courses 1 and 2, which may be taken together, will consist of lectures, each one hour daily, supplemented by laboratory and field exercises. Courses 3 and 4 are designed to aid high school teachers and others who desire more detailed laboratory work in these subjects.

#### 1. NATURE STUDY IN ELEMENTARY EDUCATION. Professor SCHMUCKER. Biological Laboratory.

This course will consider especially the pedagogy of the subject and its practical application as a subject of study during the first four years of school life. It will consider nature as the means of awakening the child and enlarging both his powers and his stock of ideas. The materials of study, as well as the principles, will be carefully considered, particularly in connection with the laboratory, field or conference work of each day.

#### 2. NATURE STUDY AS A PREPARATION FOR AGRICULTURE. Professor SCHMUCKER. Biological Laboratory.

In this course such aspects of nature study will be considered as best lead to the viewpoint of the student of agriculture. The subjects studied will be those that will best serve as a background for the subsequent study of agriculture. This course will parallel the preceding one, but will throw the emphasis upon the practical aspects of the subjects treated. The laboratory, field or conference work each day in connection with both courses will be conducted at the same time, giving each set of students a broader outlook.

### 3. BOTANY. PROFESSOR GIVLER. Biological Laboratory.

Familiar seeds, fruits, roots, stems and leaves found in the markets of Baltimore and in the field are the objects around which interest first centers. Germination studies upon various types of seeds lead further toward some understanding of seed-plants. The microscope, introduced for the study of the finer structure of roots and stems, becomes the means whereby the simpler algæ and fungi are examined. Here the student becomes acquainted with some of the fundamental facts of plant structure and activity, the nature of protoplasm, some schemes of cellular organization, and the origin and meaning of sex in plants. In an ascending series of type forms the plan of organization of the principal classes of plants is presented, and, in particular, the probable origin of the flowering plant with its seed-habit is traced from its spore-bearing ancestors.

### 4. ZOÖLOGY. PROFESSOR GIVLER. Biological Laboratory.

The main purpose of this course is to give the student some acquaintance with the organization and systematic relations of animals. Throughout the greater part of the course the frog will remain the center of interest, serving as a subject for careful dissection and study and for comparison with other animals. Such subjects as the cell tissues, organs and their functions, life-history, embryology and economic importance will be discussed in connection with various forms from day to day. Work upon the frog's skeleton will lead to a careful study of that of man. This, with some comparative study of the skeletons of various types of vertebrates, will complete the course.

## CHEMISTRY

### 1. INTRODUCTION TO GENERAL CHEMISTRY. Associate Professor GILPIN. Chemical Laboratory.

No previous knowledge of chemistry is required for this course. It will include, as far as possible in the time allowed, a study of the more important non-metallic and metallic elements and their properties. Remsen's "Chemistry" (Briefer Course) will be used as a basis for the classroom and laboratory work.

Special emphasis will be laid on the laboratory work, and the student will be encouraged to attain such familiarity with some of the more important chemical substances and their behavior and with methods of laboratory practices as can only be secured by personal conference and experimentation in the laboratory.

*Five lectures and 12 hours' laboratory work weekly.*

2. HOUSEHOLD CHEMISTRY. Associate Professor GILPIN.  
Chemical Laboratory.

This course will consist of three lectures and twelve hours' laboratory work weekly, and is intended for those who have taken courses in elementary chemistry and domestic science. It will include a study of fuels, combustion, oxidation, air, water, its analysis and purification, food principles, preparation and testing of food, and preservatives.

3. ADVANCED INORGANIC CHEMISTRY. Associate Professor GILPIN. Chemical Laboratory.

This course is intended for those who have completed Course 1 and wish to extend their knowledge of chemistry. It will consist of two lectures each week and twelve hours' laboratory work. The time spent in the laboratory will be devoted chiefly to practice in qualitative analysis.

(NOTE.—In case there is a sufficient demand for a course in organic chemistry instead of Course 3, it will be given. As arrangements have to be made, students are requested to advise the Director in advance.)

4. LABORATORY WORK IN INORGANIC OR ORGANIC PREPARATIONS. Associate Professor GILPIN. Chemical Laboratory.

This course may be followed by persons who have had the necessary preliminary chemical training. It will consist of laboratory work, twelve hours weekly, based on Renouf's "Inorganic Preparations" or Remsen's "Organic Chemistry," and such outside reading as may be deemed advisable by the instructor.

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Laboratory Fees: \$5.00, to cover cost of materials, for one course or more. (The fee for materials does not include the cost of small pieces of apparatus not returnable and the charge for breakage, to be paid at the close of the session. This additional amount averages about \$2.00.)

## DOMESTIC SCIENCE

1. SELECTION AND PREPARATION OF FOODS. Miss HARRIS.  
Public School No. 79.

To give a working knowledge of the preparation of simple foods is the aim of this course. It will include laboratory work in the manipulation of foodstuffs, demonstrations and lectures on

the principles of physics and chemistry that underlie food preparation. A consideration of the comparative cost and nutritive values of food materials.

For those students who expect to teach Domestic Science, Chemistry 1 is advised as a parallel course.

Laboratory fee, \$5.00.

## 2. EXPERIMENTAL AND ADVANCED COOKERY. Miss HARRIS. Public School No. 79.

Preservation of fruits and vegetables. Time-saving devices in food preparation. Purchase and manufacture of food. Advanced work in food preparation. Planning menus. Consideration of food requirement. Serving meals. The principles of Chemistry and Physics, underlying food preparation, are considered in detail.

This course is a continuation of Course 1 given in 1912. A knowledge of Chemistry and Course 1, or its equivalent, is prerequisite. Students preparing to teach Domestic Science are advised to take Household Chemistry parallel.

Laboratory fee, \$4.00.

## 3. THE TEACHING OF HOUSEHOLD ARTS. Miss HARRIS. Public School No. 79.

This course is designed for the rural teacher who wishes, in the absence of equipment sufficient for systematic courses in Domestic Art and Science, to introduce the elements of the subject in the work of the school. It will include planning a course of study and minimum equipment, and special treatment of such topics as sanitation, personal hygiene, foods and nutrition, demonstrations in cooking, sewing, textiles and clothing. Fairs and exhibits of children's work, clubs in bread-making, canning and other agencies aiding rural schools to meet some of the problems of country life will be considered.

Laboratory fee, \$2.00.

# EDUCATION

## 1. PRINCIPLES OF EDUCATION. Professor DRESSLAR. McCoy Hall.

This course is offered as an introduction to the general theory of education, and will be limited in the main to the discussion of the following topics: Aims of education; biological problems in education; individual development; the school as a social institution; ethical phases of education; the doctrine of formal discipline; interest and effort theories; relative values; the psychological bases of teaching; applications of theory to practical teaching in both elementary and secondary schools.



The work will consist of lectures, readings, reports and general discussions.

Text-book: Ruediger's "Principles of Education" (Houghton-Mifflin Company).

## 2. EDUCATIONAL PSYCHOLOGY. PROFESSOR BUCHNER. McCoy Hall.

This course of lectures, readings and reports is designed to provide opportunity for the study of the principles of general psychology in their application to education and teaching. Particular attention will be given to the chief features of adolescence and to the special psychology of the more important school subjects and activities. The scope of the work will be determined in accordance with the knowledge of psychology possessed by the students.

## 3. SCHOOL HYGIENE. PROFESSOR DRESSLAR. McCoy Hall.

The aim of this course will be to direct the attention of teachers and superintendents to some of the most important phases of hygiene and sanitation arising in connection with the school life of the children and the teachers. Special topics will be: The need of larger and better located school grounds; the construction, equipment and sanitation of school buildings; conservation of eyesight and hearing; oral hygiene; medical inspection; diseases especially prevalent among school children; physical education and its relation to mental development; the problem of the sub-normal child; fatigue and the school program; the hygiene of instruction; the school as an agent for improving the hygienic conditions of a community.

These and such other topics as time will permit will be presented through lectures and assigned readings reported on by members of the class. The practical demands of school work and school life will be dwelt on throughout the course.

Text-book: Dresslar's "School Hygiene" (Macmillan).

## 4. SUPERVISION OF TEACHING IN ELEMENTARY SCHOOLS. MISS STUART. McCoy Hall.

This course is designed for supervisors and principals of elementary schools, and instructors in teachers' training schools. It will deal with the fundamental problems of teaching in elementary schools. Among the topics to be considered are: The course of study; characteristics of good teaching; the function of supervision; helpful supervision; motivating the teacher; testing for efficiency; conservation of the teacher's health and energy; home and neighborhood co-operation.



5. THE ELEMENTARY SCHOOL: GRAMMAR GRADES. Miss  
STUART. McCoy Hall.

This course will present the theory and practice of teaching in the fourth, fifth, sixth, seventh and eighth grades of the elementary school. It will include: The formulation of principles underlying method; courses of study; teaching pupils how to study; motivating the pupils; training for efficiency; character-building, and related topics. Special methods for reaching the duller section of the class, applied to the teaching in English, history, geography, arithmetic and nature study, will be presented. Outside reading and written reports will be required.

6. THE ELEMENTARY SCHOOL: PRIMARY GRADES. Miss  
BROCHHAUSEN. McCoy Hall.

By means of lectures, reports and discussions, this course will consider the problems peculiar to the first, second and third grades of the elementary school, especially to the first grade. The subject-matter for each grade will be outlined, and effective methods for presenting this material will be given. Outside reading and written reports will form part of the work.

7. THE TEACHING OF ENGLISH AND ARITHMETIC IN THE  
ELEMENTARY SCHOOL. Miss BROCHHAUSEN. McCoy  
Hall.

The first half of this course of lectures, reports and discussions will be devoted to the problems of the course of study and the teaching of English throughout the eight grades of the elementary school. The work will include a consideration of the subject-matter, with emphasis on oral and written composition, its relation to spelling and grammar, and the close correlation between composition and literature.

The second half of the course will give attention to the subject-matter of arithmetic and the problems of teaching it in the elementary school. Special reading and written reports will form part of the work.

8. ORGANIZATION, ADMINISTRATION AND SUPERVISION OF  
RURAL SCHOOLS. Superintendent Cook. McCoy Hall.

This course of lectures, required readings, and reports is designed to study the problems of the organization and the administration of rural schools from the viewpoint of state, county and district school authorities; school taxes and the apportionment of state school funds; various plans for co-operative work in rural school improvements—the boys' and girls' club movements; the strength and limitations of these and other plans for rural school improvement will be discussed.

The means, purposes and results of supervision of rural schools in state, county and district units will be studied by means of typical concrete examples of good supervision.

A brief survey will be made of all the forces and agencies now at work to redirect the rural schools for country life, touching rural sociology in its relation to the work of the teacher, supervisor and superintendent.

Text-books: Foght's "The American Rural School" (Macmillan); Carney's "Country Life and the Country School" (Row, Peterson & Co.); "Rural School Supervision," Part II, Yearbook of the National Society for Study of Education, 1913 (University of Chicago Press); Cubberley's "School Funds and Their Apportionment" (Columbia University).

## 9. THE RURAL SCHOOL: METHODS AND OBSERVATION. Miss LANE. Levering Hall.

This course will deal with the main difficulties which the rural teacher has to face. It will endeavor, by means of a demonstration school, class discussion and assigned reading, to show some of the ways in which these problems may be worked out; to make the one-room school not merely a duplicate of schools in the city, but rather an institution adapted to the peculiar needs of country life, possessing its own unique advantages. Methods for time-saving and efficiency will be emphasized.

## 10. A DEMONSTRATION SCHOOL. Miss LANE. Levering Hall.

An elementary school of seven grades will be conducted as a basis for the detailed conferences comprised in Course 9 and for some of the work in Course 8. It will present demonstrations of various means for carrying out the elementary course of study, based on the relative importance of subjects, length of recitation, alternation, combination of subjects, and grouping of grades. The type of teaching problems, presented from week to week, will be selected with the view of aiding the teacher of the ungraded rural school. Registrations in this course, which should be made in advance of the opening, will be filed in the order received.

## ENGLISH COMPOSITION

### 1. ELEMENTS OF ENGLISH COMPOSITION. Associate Professor GAY. McCoy Hall.

A review of some of the important parts of grammar, of punctuation and sentence-structure, and a study of the principles of rhetoric and composition, with emphasis on the paragraph. Written exercises will be required throughout the course, with

criticism and conferences. This course is planned to meet the needs of teachers and others who wish to review their high-school English composition or to study it for the first time.

Text-book: Scott and Denny's "Composition-Rhetoric" (Allyn & Bacon).

## 2. THEME-WRITING. Associate Professor GAY. McCoy Hall.

The special work of this class will be the theory and practice of exposition. The other forms of discourse will be discussed briefly, and the prose writings of selected authors will be studied as models. Constant drill in writing will be provided for, and the themes and essays will be criticised in the classroom (anonymously) and in private conference. The work is of the same grade as the usual college freshman course.

Text-book: Canby and others, "English Composition in Theory and Practice," Revised Edition, 1912 (Macmillan).

## 3. ADVANCED EXPOSITION. Associate Professor GAY. McCoy Hall.

A study of the formal essay and of practical methods of obtaining material, indexing and outlining it, and presenting it in reports, essays, treatises, etc. A feature of the course will be the assignment of special field work for obtaining material to be used in class, and some practice will be afforded in the use of libraries, reference books and indexes. The course is offered only to students who have had Course 2 or its equivalent.

Text-book: Baldwin's "College Manual of Rhetoric" (Longmans, Green & Co.).

## 4. ORAL ENGLISH. Dr. FRENCH. McCoy Hall.

This course is designed to give practice in the various forms of unpretentious public speech. It will include the preparation and delivery of such speeches as are not infrequently required on various special occasions; oral explanation and oral narration, such as enter constantly into the routine work of all teachers, and practice in the art of phrasing thought on one's feet. It is not a course in technical voice culture or in dramatic recital, though some use will be made of brief memorized selections for the purpose of illustrating the elements of expression. The emphasis of the course will be upon the effective presentation of one's own ideas.

Knapp and French's "The Speech for Special Occasions" (Macmillan) will be used as a text-book.

## ENGLISH LITERATURE

## 1. A GENERAL SURVEY OF ENGLISH LITERATURE FROM MILTON TO TENNYSON. Professor MIMS. McCoy Hall.

The emphasis of this course will be laid on poetry rather than on prose, and especially on such poetry as will be of interest to those who are teaching English in the high schools. At the same time an effort will be made to give the students some idea of the evolution of English poetry within the period indicated and to encourage them to pursue their studies further.

Text-book: "Century Readings in English Literature."

## 2. THE PROSE OF THE NINETEENTH CENTURY. Professor MIMS. McCoy Hall.

A careful study will be made of Lamb's "Essays of Elia," Carlyle's "Heroes and Hero Worship" and "Sartor Resartus," Ruskin's "Crown of Wild Olive," and "Selections from Matthew Arnold" (Gates). Some attention will be devoted to the style as well as to the subject-matter of these books. Lectures will be given on the more important phases of English life and thought in the nineteenth century.

Text-books: Any good editions of the writings mentioned.

## 3. AMERICAN LITERATURE. Dr. FRENCH. McCoy Hall.

The course will consist of a rapid survey of American literary history, with special reference to the forces that have influenced literature, followed by a study of American poetry from Freneau to the present day. Poems representing various literary types will be selected for critical reading and will serve as the basis of written reports. These will include, so far as possible, the American poems usually required for admission to college, and such familiar poems as "Thanatopsis," "Evangeline," "Hiawatha," and "The Commemoration Ode."

Cairns's "A History of American Literature" (The Oxford Press) will be used as a handbook. Stedman's "American Anthology" will be useful as a source of texts.

## FRENCH

## 1. ELEMENTARY FRENCH. Professor MARDEN. McCoy Hall.

This course is intended for students who have no knowledge of the language. The work will consist of a study of the essentials of grammar, drill on pronunciation, practice in writing, and extensive reading of texts.

Text-books: Fraser and Squair, *Shorter French Grammar*; George Sand, *La Mare au Diable*; Labiche et Martin, *Le Voyage de Monsieur Perrichon*.

(NOTE.—Satisfactory completion of this course will be counted as partial fulfillment of the entrance requirement in French).

## 2. FRENCH LITERATURE. Professor MARDEN. McCoy Hall.

Students entering this course are supposed to have an accurate knowledge of the essentials of French grammar, and the ability to read without difficulty simple French prose. The minimum of preparation for entrance is the work outlined for Course 1. Work in literature will center on the classic drama, but the details of reading will be suited to the requirements of the class after organization. Exercises in composition and grammar will continue throughout the term.

Text-books: Fraser and Squair, *French Grammar*, Part II; Mérimée, *Colomba*; Corneille, *Cid*; Racine, *Phèdre*; Molière, *Le Bourgeois Gentilhomme*.

## GERMAN

### 1. ELEMENTARY GERMAN. Professor WOOD. McCoy Hall.

The elements of German grammar, accompanied by oral practice and short exercises in writing.

Text-book: Vos, "Essentials of German" (Holt & Co.).

(NOTE.—Satisfactory completion of this course will be counted as partial fulfillment of the entrance requirement in German).

### 2. READINGS IN GERMAN. Professor WOOD. McCoy Hall.

This course is intended for students who have had the equivalent of Course 1, in whole or in part. Along with the prose readings, short German poems (previously learned) will each day be commented on toward the end of the hour.

Text-books: von Wildenbruch, *Das edle Blut* (Siepmann's German Texts, The Macmillan Co.); Wilhelm Raabe, *Else von der Tanne* (Oxford University Press, American Branch, New York); J. H. Dillard, *Aus dem deutschen Dichterwald* (American Book Co.).

### 3. GERMAN LYRIC POETRY. Professor WOOD. McCoy Hall.

German verse will be considered in its chief phases and representatives, from Klopstock to the present time, with illustrations and examples from earlier periods. The point of view will be that of careful literary appreciation and of the study of lyrical expression. In the final part of the course, poems of Conrad Ferdinand Meyer will be compared in earlier and later versions,



as a means of elementary training in the judgment of poetic style.

Text-book: "The Oxford Book of German Verse." The cheaper edition in cloth. (Oxford University Press, American Branch.)

## HISTORY

### 1. THE HISTORY OF GREECE AND ROME. Dr. MAGOFFIN. McCoy Hall.

This course of lectures, conferences and map studies will bring into prominence the relations which existed between Greece and Rome. Stress will be laid upon the archæological, social and religious sides of recent historical investigations in the classical field.

Text-books: Goodspeed, "History of the Ancient World" (Scribner); Fling, "A Source Book of Greek History," and Munro, "A Source Book of Roman History" (D. C. Heath & Co.); McKinley, "Historical Notebook for Ancient History" (McKinley Pub. Co.).

### 2. EUROPEAN HISTORY SINCE 1815. Assistant Professor MYERS. McCoy Hall.

Beginning with a brief treatment of the reconstruction of Europe after the fall of Napoleon, special attention will be given to the development of Italian and German unity, the movements leading to the present alignment of the powers, and the causes of the last Balkan War.

Text-books: C. D. Hazen, "Europe Since 1815" (Holt); J. W. Headlam, "Bismarck" (Putnam); M. Cesaresco, "Cavour" (Macmillan). Suggestions for further readings also will be made from time to time.

### 3. AMERICAN HISTORY, 1850-1877. Assistant Professor MYERS. McCoy Hall.

Secession, Civil War (military details omitted) and Reconstruction. A consideration of the constitutional, political and economic questions involved. Special attention will be given to the methods of gathering materials for the study and teaching of American history. The various libraries in Baltimore offer excellent opportunity for work of this character.

Text-books: W. Wilson, "Division and Reunion" (Longmans, Green and Co.); T. C. Smith, "Parties and Slavery" (Harper); W. A. Dunning, "Reconstruction, Political and Economic" (Harper).



## LATIN

## 1. BEGINNING LATIN. Dr. MAGOFFIN. McCoy Hall.

This course will cover the entire first year of high school Latin. A thorough drill in forms will be given which will train the ear and the eye, as well as the memory. Especial care will be taken to meet the needs both of the student taking Latin for the first time and of the teacher who is reviewing the subject.

Text-book: Collar and Daniell, "First Year Latin" (Ginn & Co.).

(Should there be a demand for a course in Cæsar, Cicero or Vergil instead of the above, arrangements will be made accordingly.)

## 2. LIVY, BOOKS 21 AND 22. Dr. MAGOFFIN. McCoy Hall.

This is designed to be a reading course in Latin, and will cover the equivalent of the first half-year in college Latin. A proper amount of attention will be given to the historical and military importance of Hannibal's campaigns as described in these books, but particular effort will be made to increase the ability of the students to read Latin, and to translate it into idiomatic English.

Text-book: Lord, "Livy, Books I, XXI, XXII" (Sanborn).

MANUAL TRAINING AND MECHANICAL  
DRAWING

Realizing the great demand for trained teachers of hand work in every locality, and believing that the demand will increase owing to the extension of this subject in the various schools, courses in elementary and in advanced hand work are offered to assist and to train those who would otherwise find it impossible to obtain adequate instruction necessary to the successful teaching of this subject. The aim of the instruction is to help those who contemplate entering this field to acquaint themselves with methods and practice of manual training, giving them the fundamental processes and a working knowledge of the subject with which to make a beginning. More advanced work is arranged for those who have a fundamental knowledge of manual training.

Conferences on subjects of importance to manual training teachers will be held in connection with both courses.

1. **ELEMENTARY MANUAL TRAINING.** Mr. GAITHER. Public School No. 79.

Construction in paper, cardboard, weaving, raffia, basketry, simple bookbinding and elementary woodwork. Representative projects in each will be carried out. This course includes hand-work processes suitable for the first six years of the elementary schools.

The course is planned to meet the needs of the regular grade teacher, but will also be helpful to others who wish to become familiar with this work as it is carried on in the elementary schools. The models given are such as can be easily reproduced in the regular classroom with a simple equipment.

Manual training exercises suitable for rural schools, where materials and equipment are limited, will be presented. Helpful models illustrating the use of the simplest materials will be employed in demonstrations.

For those who pursued this course in the summer session of 1912 and desire to continue the subject, advanced work is offered, employing more intricate models, with exercises in materials and methods.

The following topics will be emphasized: Practical work and study of methods. Materials at hand in the various localities and their value. Planning equipment and supplies. Cost. Outlines of course for both city and rural schools.

Laboratory fee, \$1.50.

2. **BENCH WORK IN WOOD AND MECHANICAL DRAWING.** Mr. GAITHER. Public School No. 79.

This course, employing a comprehensive set of bench work tools, and including the elements of joinery and carpentry, and mechanical drawing, is planned to prepare the student for teaching bench work in wood in the upper grades of the elementary schools and the lower grades of the secondary schools.

The following topics will be emphasized: Practical instruction in the use of tools; Problems involving the various processes of the work suggested by the teacher and carried out by the class; Methods of class presentation and execution; Organization, planning of equipment and supplies; Cost; Outline of course.

For those who pursued this course in the summer session of 1912 and desire to continue the subject, a special course is offered in advanced construction in wood, dealing mainly with projects in simple furniture construction, using both hard and soft woods. Methods of finishing and decorating will also receive attention.

The course in Mechanical Drawing will include the proper use of drawing instruments, and the making and the reading of simple working drawings, used in connection with the course in bench work in wood.

Laboratory fee, \$2.50.

## MATHEMATICS

1. PLANE ANALYTIC GEOMETRY. PROFESSOR HULBURT.  
Physical Laboratory.

A knowledge of algebra through quadratics, of plane geometry and of plane trigonometry is a prerequisite of this course.

## 2. DIFFERENTIAL AND INTEGRAL CALCULUS. PROFESSOR HULBURT. Physical Laboratory.

This course is for beginners in the subject. An elementary knowledge of plane analytic geometry is presupposed.

Both of these courses are of collegiate grade.

(NOTE.—Should there be a sufficient demand for work in plane trigonometry, theory of equations, determinants, or projective geometry, a class may be formed to meet three times a week.

## MUSIC

The Peabody Conservatory of Music of Baltimore is announcing a summer session of six weeks, July first to August twelfth. Its program includes courses in Public School Music, Normal Classes, Singing, Piano, Organ, and other subjects.

As the buildings of the University and the Conservatory are in close proximity, students desiring instruction in music will find it convenient to arrange their courses in the two institutions.

Circulars containing full particulars will be sent on application to either the University or the Conservatory.

## POLITICS

## THE AMERICAN GOVERNMENT: NATIONAL, STATE AND MUNICIPAL. Assistant Professor MYERS. McCoy Hall.

A study of the nature and operation of constitutional government, and of the way in which public policy is formulated and the public business is conducted. Consideration will be given to political problems of the present day.

Text-books: J. Bryce, "The American Commonwealth" (Macmillan), (the abridged edition will be sufficient, but the regular two-volume edition is preferred); W. B. Munro, "The Government of American Cities" (Macmillan). Parallel readings on special topics for investigation.

## PHYSICS

1. GENERAL PHYSICS: MECHANICS AND HEAT. Associate Professor PFUND. Physical Laboratory.

A collegiate course of lectures, experimental demonstrations and recitations.

2. LABORATORY COURSE: MECHANICS AND HEAT. Associate Professor PFUND. Physical Laboratory.

Qualitative and quantitative experiments, to accompany Course 1, to be performed by the student. Four two-hour periods per week.

3. GENERAL PHYSICS: ELECTRICITY AND MAGNETISM. Associate Professor PFUND. Physical Laboratory.

A collegiate course of lectures, experimental demonstrations and recitations.

4. LABORATORY COURSE: ELECTRICITY AND MAGNETISM. Associate Professor PFUND. Physical Laboratory.

Qualitative and quantitative experiments, to accompany Course 1, to be performed by the student. Four two-hour periods per week.

Text-books: Courses 1 and 3, Ames, "Text-book of General Physics"; Courses 2 and 4, Ames and Bliss, "Manual of Experiments in Physics."

Prerequisite: Mathematics, including trigonometry.

5. PHYSICAL OPTICS. Associate Professor PFUND. Physical Laboratory.

An advanced course on refraction, dispersion, interference, diffraction, polarization and radiation, accompanied by lecture demonstrations. Three lectures weekly.

6. LABORATORY COURSE: PHYSICAL OPTICS. Associate Professor PFUND. Physical Laboratory.

This course of experiments accompanies Course 5. The student is trained to acquire a thorough working knowledge of spectrometers, interferometers, gratings, etc. Special emphasis is laid on the study of modern instruments of high efficiency. Three two-hour periods per week.

## SCHEDULE

8.30—9.20

Biology 2  
Domestic Science 1  
(8.30—10.20)  
Education 7  
English Composition 3  
German 3  
History 3  
Latin 2  
Manual Training 2  
Mathematics 2  
Physics 5

9.30—10.20

Biology 3  
Domestic Science 1  
Education 1  
English Composition 4  
German 1  
History 1  
Mathematics 1

9.30—11.30

Education 10 (Demonstration School)

10.30—11.20

Domestic Science 2  
(10.30—12.20)  
Education 2  
Education 4  
English Composition 2  
English Literature 1  
French 1

Latin 1  
Manual Training 1  
Physics 1  
Politics 1

11.30—12.30

Biology 1  
Chemistry 1  
Domestic Science 2  
Education 3  
Education 5  
English Composition 1  
English Literature 3  
German 2  
History 2

12.30—1.20

Biology 4  
Education 6  
Education 8  
English Literature 2  
French 2  
Physics 3

1.30—2.20

Chemistry 2 (M. W. F.)  
Chemistry 3 (T. Th.)

2.30—4.20

Biological Laboratory  
Chemistry 4  
Chemical Laboratory  
Domestic Science 3  
Education 9  
Physics 2, 4, and 6

# THE JOHNS HOPKINS UNIVERSITY

BALTIMORE

FOUNDED 1876

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SUMMER COURSES

JULY 6 - AUGUST 13

1914



BALTIMORE, MARYLAND

PUBLISHED BY THE UNIVERSITY

ISSUED MONTHLY FROM OCTOBER TO JULY

FEBRUARY, 1914

New Series, 1914, No. 2]  
[Whole Number, 262]

## CALENDAR, 1914

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June 9, Tuesday—Commencement Day.

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July 2, Thursday— } 9 a. m. to 5 p. m., Registration at the office  
July 3, Friday— } of the Registrar, McCoy Hall.  
July 6, Monday— }

July 4, Saturday. Independence Day. *University buildings closed.*

July 6, Monday—8.30 a. m., Instruction in the Summer Courses begins.

July 11, Saturday—Classes meet as usual.

August 13, Thursday—Examinations and close of Summer Courses.

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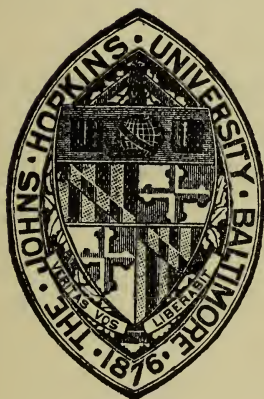
October 6, Tuesday—Thirty-ninth regular session begins.

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All work will begin promptly on Monday morning, July 6. It is important that students should reach Baltimore in time to be present at the opening exercises in each class. Registration may be made by mail prior to July 6.

# SUMMER COURSES

1914



BALTIMORE

THE JOHNS HOPKINS PRESS

1914

THE JOHNS HOPKINS UNIVERSITY  
SUMMER COURSES

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OFFICERS OF ADMINISTRATION

WILLIAM H. WELCH, M. D., LL. D.  
*Chairman, Administrative Committee*

EDWARD F. BUCHNER, PH. D.  
*Director of the Summer Courses*

THOMAS R. BALL,  
*Registrar*

W. GRAHAM BOYCE,  
*Treasurer*

# THE JOHNS HOPKINS UNIVERSITY CIRCULAR

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New Series, 1914, No. 2

FEBRUARY, 1914

Whole Number, 262

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## GENERAL STATEMENT

The fourth year of the Summer Courses of the Johns Hopkins University will open on Monday, July 6, and continue until Thursday, August 13, inclusive. Exercises in each subject will be held every week-day, Monday to Friday. In addition, on *Saturday, July 11, classes will meet as usual.* Each course will consist of thirty class exercises or their equivalent. In the sciences laboratory work will be additional. Examinations will be held at the close of the courses.

As the summer courses are authorized by the Trustees, and their credits fixed by the Board of Collegiate Studies, they are an integral part of the work of the University. All the resources of the institution essential to their conduct are placed at the disposal of the students. These resources include the use not only of the academic buildings, but also of the general and departmental libraries, laboratories, and gymnasium.

The principal object of the University in making provision for the summer work is to furnish instruction to teachers in all grades of schools, and to other persons who seek opportunities for instruction, with or without reference to an academic degree. Some courses offered are designed to meet the needs of matriculated students who wish to advance their standing or to make up deficiencies; others, to enable non-matriculated students to absolve in part the

entrance requirements. Also courses in some subjects not given in the regular session are offered to meet special needs of schools.

#### CHARACTER OF INSTRUCTION

The courses maintain the standard of instruction which characterizes the work of the regular session in the subjects representing collegiate departments, as well as in those introduced to meet the special needs of teachers. In addition to the regular class exercises, instructors hold daily conferences, in which the work of the courses is supplemented and adapted to the particular needs of individuals.

#### DEMONSTRATION AND OBSERVATION SCHOOLS

There will be conducted at the University during the session an elementary school of seven grades, designed primarily to demonstrate typical means and material for more effective teaching in rural schools.

It is expected that graded vacation schools, including a vocational school, will be in operation in the city and available for observation in connection with some of the work in the courses in education.

Opportunity will thus be afforded superintendents, principals, supervisors and teachers to consider concretely many problems in elementary instruction.

#### ACADEMIC CREDIT

Of the courses given in one summer session, matriculated students, or candidates for matriculation, in this University may offer for credit not more than two courses in collegiate subjects. In such cases registration and attendance will be strictly limited to the courses so offered.

For the satisfactory completion of the work of any course



a credit of not more than one-half a regular course will be allowed. The exact amount of credit earned by each student will be determined by the instructor according to the work accomplished, subject to the approval of the Director.

Students not matriculated in the University may receive certificates of attendance and of the amount of work satisfactorily performed. These certificates will indicate the value of the work done in each course, and in most instances will meet the requirements of superintendents and school boards as records of summer study.

#### ADMISSION AND ATTENDANCE

There are no formal examinations for admission. Students, both men and women, will be admitted to such courses as they are found qualified by the respective instructors to pursue with advantage.

The session will open promptly on July 6, carrying out the schedule provided on page 24. Students are advised to register in advance of the opening.

The Registrar's office (McCoy Hall, first floor) will be open for registration of students on Thursday, July 2, Friday, July 3, and Monday, July 6, from 9 a. m. to 5 p. m. *The university buildings will be closed Saturday, July 4.* Students should register without delay. After July 9, admission to each course will be restricted to registered students. After July 13 no change of courses will be allowed.

All fees, including both tuition and special laboratory fees, must be paid to the Treasurer immediately upon registration.

#### LOCATION

The University buildings are situated on Monument street and Druid Hill avenue, between Howard and Eutaw streets.

By courtesy of the Baltimore Board of School Commissioners, the instruction in Manual Training and Domestic Science will be given in Public School No. 79, Park avenue and Hoffman street.

#### EXPENSES

The tuition fee is \$25.00, payment of which entitles the student to attend as many as three courses. (Under very exceptional circumstances, a student may register in one course only. The tuition fee in such cases will be \$15.00).

Additional fees are required for materials used in some of the courses. (For details, see statement of courses). No reduction of fees will be allowed for late entrance; nor for withdrawal, except on account of illness or other serious and unavoidable causes.

#### BOARD AND LODGING

The University has no dormitories. Comfortable furnished rooms in private homes in the vicinity of the University are offered for rent at prices ranging from \$1.50 to \$3.00 per week for a single room, and \$3.00 to \$7.00 a week for a suite of rooms. Board can be had in private boarding-houses or in public restaurants at prices ranging from \$3.50 to \$5.00 per week. A printed list of boarding and lodging houses will be sent upon request.

#### LECTURES AND RECITALS

In addition to the social opportunities afforded by the opening and closing receptions, students are invited to the lectures and recitals which will be given every Wednesday afternoon and Friday evening, in co-operation with the Summer Session of the Peabody Conservatory of Music.

## EXCURSIONS

Saturday excursions will be made to Annapolis, the State capital, and to Washington, D. C., both within an hour's ride by trolley, and to points of interest in and about Baltimore.

## UNIVERSITY POST-OFFICE

The University post-office, in McCoy Hall, will be open. Students may have their mail addressed in care of the Johns Hopkins University.

## SUMMER COURSES FOR GRADUATES IN MEDICINE

Beginning June 1st and extending for six weeks, the Medical School of the Johns Hopkins University, in co-operation with the Johns Hopkins Hospital, offers to graduates in medicine courses in Medicine, Surgery and the various specialties as well as in several of the underlying scientific branches. The special circular describing these courses and any other information concerning them may be obtained by addressing the Dean of the Johns Hopkins Medical School, Washington and Monument Sts. The fees vary from \$25. to \$125. according to the number and character of the courses taken.

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## INSTRUCTORS

## EDWARD F. BUCHNER

*Director*

A. B., Leander Clark College, 1889, and A. M., 1892; Ph. D., Yale University, 1893, and Lecturer and Instructor in Philosophy and Pedagogy, 1892-97; Professor of Analytical Psychology, New York University, 1896-1901; Docent, Clark University, 1901-03; Professor of Philosophy and Education, University of Alabama, 1903-08; Professor of Education and Philosophy.

## GEORGE M. GAITHER

*Manual Training*

Supervisor of Boys' Industrial Work in Vacation Schools, New York City, 1904-08; Instructor in Carpentry and Wood Carving, Baltimore Polytechnic Institute; Supervisor of Manual Training Centres, Baltimore Public Schools.

## ROBERT M. GAY

*English*

A. B., Brooklyn Polytechnic Institute, 1900; A. M., Columbia University, 1901; Professor of English, Goucher College.

## J. ELLIOTT GILPIN

*Chemistry*

A. B., Johns Hopkins University, 1889, and Ph. D., 1892; Collegiate Professor of Chemistry.

## JOHN P. GIVLER

*Biology*

Ph. B., Hamline University, 1906, and A. M., 1912; Graduate Student, Johns Hopkins University, and Student-Assistant in Zoology, 1906-07, 1909-10; Instructor in Zoology, Haverford College, 1910-11; Professor of Biology, South-western Kansas College.

## AGNES ELLEN HARRIS

*Domestic Science*

S. B., Columbia University, 1911; Director, Department of Home Economics, Florida State College for Women.

## FRANCES M. KELSEY

*Education*

S. B., and Diploma, Teachers College, Columbia University, 1912; Principal, Director of Practice, and Supervising Principal, Indianapolis, 1890-1900; Superintendent Training Department, Northern State Normal School, Michigan, 1902-1911; Principal, Indianapolis Public Schools.

## FLORENCE M. LANE

*Education*

Teachers College, Columbia University, 1910; Teacher in Horace Mann Model School and Tutor in Psychology, Columbia University, 1909-10; Professor of Rural Education, in Charge of Model Rural School, First District Normal School, Kirksville, Mo.

## RAYMOND LEGUY

*French*

University of France (Bachelier ès Lettres, 1908; Ecole Normale Supérieure, 1910; Licencié ès Lettres, 1913; Diplômé des Etudes Supérieures, 1913); Instructor in Romance Languages.

## RALPH V. D. MAGOFFIN

*History and Latin*

A. B., University of Michigan, 1902; Fellow, American School of Classical Studies, Rome, 1906-07; Fellow, Johns Hopkins University, 1907-08, and Ph. D., 1908; Associate in Greek and Roman History and Roman Archaeology.

## JOHN M. MCBRYDE

*English*

A. B., University of South Carolina, 1890, and A. M., 1894; Fellow, Johns Hopkins University, 1896, and Ph. D., 1897; Professor of English, Hollins Institute, 1897-1903; Associate in English, University of North Carolina, 1904-05; Professor of English, Sweet Briar College, 1905-09; Professor of English, University of the South.

**WM. STARR MYERS***History and Politics*

A. B., University of North Carolina, 1897; Ph. D., Johns Hopkins University, 1900; Master of History, Gilman Country School, 1900-06; Assistant Professor of History and Politics, Princeton University.

**A. HERMAN PFUND***Physics*

S. B., University of Wisconsin, 1901; Fellow, Johns Hopkins University, 1905-06, Ph. D., 1906, Assistant, 1906-7, and Johnston Scholar, 1907-09; Associate Professor of Physics.

**DAVID M. ROBINSON***Archaeology and Greek Literature*

A. B., University of Chicago, 1898, Fellow in Greek, 1899-1901, and Ph. D., 1904; Assistant Professor of Greek, Illinois College, 1904-05; American School of Classical Studies, Athens (Fellow, 1902-03, and Professor of Greek, 1909-10); Professor of Classical Archaeology and Greek Epigraphy.

**WILLARD S. SMALL***Education*

A. B., Tufts College, 1894, and A. M., 1897; Ph. D., Clark University, 1900; Professor of Psychology, Michigan State Normal College, 1901-02; Professor of Psychology and Director of Training, State Normal School, Los Angeles, Cal., 1902-04; Superintendent of City Schools, San Diego, Cal., 1904-05; Principal, Eastern High School, Washington, D. C.; Lecturer on Education, George Washington University.

**EUGENE R. SMITH***Mathematics*

A. B., Syracuse University, 1896, and A. M., 1898; Instructor in Mathematics, Montclair (N. J.) High School, 1899-08; Head, Department of Mathematics, Polytechnic Preparatory School, Brooklyn, 1908-12; Headmaster of the Park School, Baltimore.

**ARISTOGEITON M. SOHO***Spanish*

Ph. D., Johns Hopkins University, 1898, and Lecturer since 1903; Professor of Greek and French, St. John's College, 1894-02; Professor of French and Spanish, Baltimore City College.

**JOSEPHINE B. STUART***Education*

Principal, Teachers' Training School, Pawtucket, R. I., 1886-87; Principal, Teachers' Training School, Portsmouth, N. H., 1887-89; Principal, Normal and Training School, New Bedford, Mass., 1889-1900; Graduate Instructor in Methods of Teaching, Wellesley College, 1902-04; Assistant Superintendent of Schools, New Bedford, Mass.

**GEORGE R. M. WELLS***Education*

A. B., McMaster University, 1906; A. M., Harvard University, 1909; Ph. D., Johns Hopkins University, 1912; Associate Professor of Psychology, Oberlin College.

**HENRY WOOD***German*

A. B., Haverford College, 1869; Ph. D., University of Leipzig, 1879; Knight of the Royal Prussian Order of the Red Eagle, 1910; Professor of German.



## COURSES OF INSTRUCTION

### ARCHAEOLOGY

GREEK ARCHAEOLOGY AND ART. Professor ROBINSON. McCoy Hall.

This course will give a survey of the whole field of Greek art, including sculpture, architecture, and vases. Some of the important ancient sites which have been excavated will be discussed in lectures, and an attempt will be made to give a comprehensive picture of ancient Greek life. The needs of teachers of Ancient History as well as of the History of Art will be observed. The course will consist mainly of lectures, sometimes illustrated with the stereopticon; but readings will be assigned in special books.

Text-book: Fowler and Wheeler's "Greek Archæology" (American Book Co.).

### BIOLOGY

1. BOTANY. Professor GIVLER. Biological Laboratory.

This is a course in the biology of plants. It will begin with a study of the common Brake or Bracken Fern in the field. After thoroughly mastering the structure and life-history of this form the student will turn to a study of a moss, a liverwort, various seaweeds, and other algae, and finally complete the course with work upon the pine and other seed plants. The laboratory and field work will be conducted in such fashion as to give the members of the class opportunity and experience in studying the natural history of plants from various points of view.

2. ZOOLOGY. Professor GIVLER. Biological Laboratory.

The main purpose of this course is to give the student some acquaintance with the organization and systematic relations of animals. Throughout the early part of the course the frog will remain the centre of interest, serving as a subject for careful dissection and study for comparison with other animals. Such subjects as the cell, tissues, organs and their functions, life-history, and economic importance will be discussed in connection with various forms from day to day. Work upon the frog's skeleton will lead to a careful study of that of man. This, with some comparative study of the skeletons of various types of vertebrates, will complete the course.



## CHEMISTRY

## 1. INTRODUCTION TO GENERAL CHEMISTRY. Professor GILPIN. Chemical Laboratory.

No previous knowledge of chemistry is required for this course. It will include, as far as possible in the time allowed, a study of the more important non-metallic and metallic elements and their properties. Remsen's "Chemistry" (Briefer Course) will be used as a basis for the classroom and laboratory work.

Special emphasis will be laid on the laboratory work, and the student will be encouraged to attain such familiarity with some of the more important chemical substances and their behavior and with methods of laboratory practice as can only be secured by personal conference and experimentation in the laboratory.

*Five lectures and ten hours' laboratory work weekly.*

## 2. HOUSEHOLD CHEMISTRY. Professor GILPIN. Chemical Laboratory.

This course will consist of two lectures and ten hours' laboratory work weekly, and is intended for those who have taken courses in elementary chemistry and domestic science. It will include a study of fuels, combustion, oxidation, air, water (its analysis and purification), food principles, preparation and testing of food, and preservatives.

## 3. ORGANIC CHEMISTRY. Professor GILPIN. Chemical Laboratory.

This course is intended for those who have completed Course 1 and wish to obtain some knowledge of organic chemistry. Those who are taking Course 2 are advised to take the lectures of this course also. It will consist of three lectures each week and ten hours' laboratory work. The time spent in the laboratory will be devoted to the preparation of organic compounds.

## 4. LABORATORY WORK IN INORGANIC OR ORGANIC PREPARATIONS. Professor GILPIN. Chemical Laboratory.

This course may be followed by persons who have had the necessary preliminary chemical training. It will consist of laboratory work, twelve hours weekly, based on Renouf's "Inorganic Preparations" or Remsen's "Organic Chemistry," and such outside reading as may be deemed advisable by the instructor.

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Laboratory Fees: \$5.00, to cover cost of materials, for one course or more. (The fee for materials does not include the cost

of small pieces of apparatus not returnable and the charge for breakage, to be paid at the close of the session. This additional amount averages about \$2.00.)

## DOMESTIC SCIENCE

### 1. ELEMENTARY COOKERY. Miss HARRIS. Public School No. 79.

The aim of this course is to give a working knowledge of the elementary principles of cookery. The course deals with food preparation based on a knowledge of the composition of foods, and the chemical changes produced by heat and moisture. Planning and serving simple meals are also included in this course.

For students planning to specialize in this subject Chemistry 1 is advised as a parallel course.

Laboratory fee \$5.00.

### 2. ADVANCED COOKERY. Miss HARRIS. Public School No. 79.

This course deals with food preparation, with special attention given to preservation of fruits and vegetables, by preserving, canning and jelly making. It includes a study of comparative food values, and the planning of meals for individuals and families under varying conditions. Opportunity will be given for demonstrations in the planning and serving of breakfast, dinner and supper.

Course 1 or its equivalent prerequisite. Students preparing to teach Domestic Science are advised to take Chemistry 2 and the lectures of Chemistry 3 parallel.

Laboratory fee \$5.00.

### 3. METHODS OF TEACHING DOMESTIC SCIENCE. Miss HARRIS. Public School No. 79.

This course deals with the problems of teaching Domestic Science. In the class work the following topics are treated: educational value, the place in the curriculum, equipment for teaching, courses of study, planning lessons, methods of presenting work by demonstrations. Opportunity will be given for practical work in teaching a class in Domestic Science.

This course is open to all former students of Domestic Science, and to new students who have had the equivalent of Course 1.

Laboratory fee \$2.00.

## EDUCATION

## 1. PRINCIPLES OF EDUCATION. Professor BUCHNER. McCoy Hall.

This course of lectures, readings and reports is designed to provide opportunity for an introductory study of the theory of education. Attention will be given to educational aims, problems of individual development, formal discipline, interest and effort theories, relative values, the social phases of the school, and the applications of theory to practice in both elementary and secondary instruction.

## 2. LEARNING AND TESTS OF MENTAL DEVELOPMENT. Associate Professor WELLS. Psychological Laboratory.

The first half of this course will be devoted to a presentation of the results of the experimental study of normal learning. During the second half of the course a summary will be made of the facts of defective mental development. The several methods of mental measurement will be studied, and their respective merits compared. The psychological laboratory will be used for the experiments and tests, and possibly for demonstration of cases.

Assigned text and reference readings and reports will be required.

## 3. SECONDARY EDUCATION. Dr. SMALL. McCoy Hall.

This course will deal with the present status and problems of the high school, from the double standpoint of psychology of adolescence and social utility. It will consist of a brief historical sketch of the development of high school education in America; discussion of problems of organization with special reference to the six-year high school course, the demands for vocational training and guidance, crediting of work done outside of the school, and relation to college entrance requirements; and a discussion of the educational values, the essential content, and the methods of high school studies.

Lectures, reference work, and recitations. Each student will be required to carry on a study of some special topic and present a written report of such study at the end of the course.

Johnston's "High School Education" (Scribner) will be used as a handbook.

## 4. THE ELEMENTARY SCHOOL: GRAMMAR GRADES. Mrs. KELSEY. McCoy Hall.

This course will present the theory and practice of teaching in the grades from the fourth to the eighth, inclusive. Emphasis will be placed on the characteristics of pupils as they change from

grade to grade; the adaptation of methods to these changes; the specific and difficult problems of the course of study; the needs of the varying individualities of grammar grade pupils. Attention will be given to the present vocational trend in elementary education. Outside reading and written reports will be required.

5. THE ELEMENTARY SCHOOL: PRIMARY GRADES. Miss STUART. McCoy Hall.

By means of lectures, reports, and discussions this course will consider methods of presenting the subjects taught in the first, second, and third grades of the elementary school. The subject matter for each grade will be outlined, and methods of teaching which will motivate the pupil and call for self-direction will be discussed. Outside reading and written reports will be required.

6. THE TEACHING OF ENGLISH AND HISTORY IN THE ELEMENTARY SCHOOL. Mrs. KELSEY. McCoy Hall.

The first half of this course of lectures and required reports on collateral reading will be devoted to the problems of the teaching of English throughout the eight grades of the elementary school. Attention will be given to means for the pupil's utilization of his own efforts. Illustrative material will be available for the treatment of reading, story-telling, oral and written compositions, and children's literature.

The second half of the course will be devoted to the subject matter of history and the problems of teaching it in the elementary school.

7. THE TEACHING OF ARITHMETIC AND GEOGRAPHY IN THE ELEMENTARY SCHOOL. Miss STUART. McCoy Hall.

The first half of this course will be devoted to the teaching of arithmetic throughout the eight grades of the elementary school.

The second half of the course will give attention to the subject matter of geography and to methods of teaching it to develop recognition of values and organization of the facts and ideas presented by the subject. Outside reading and written reports will be required.

8. THE RURAL SCHOOL: METHODS COURSE. Miss LANE. McCoy Hall.

This course will furnish opportunity for a discussion of the principles illustrated in the demonstration school. The teacher's work in routine school duties and her wide opportunity as community leader will be emphasized. Only those methods which have proved effective for economy and efficiency in rural schools will be pre-

sented. Attention will be given to the country school as a social centre, and the organization of children's and patron's clubs for agricultural, literary, and social purposes. Illustrative material will be available.

Registration in this course is limited to those taking Education 9, which is a parallel course.

9. A DEMONSTRATION SCHOOL: OBSERVATION COURSE. Miss  
LANE. McCoy Hall.

In this school all of the subjects which the state course of study requires to be studied in the first seven grades will be illustrated. Devices for varying drill work and methods adapted to develop initiative and power on the part of pupils will receive emphasis. In the hand-work illustrated for country schools, inexpensive and easily procurable materials will be principally used. The aim will be to present a practical country school based upon approved experience.

Registrations for this course, which should be made in advance of the opening, will be filed in the order received. [If taken alone, the fee for the course is \$25.00.]

## ENGLISH COMPOSITION

1. ELEMENTS OF ENGLISH COMPOSITION. Professor GAY.  
McCoy Hall.

A review of some of the important parts of grammar, of punctuation and sentence-structure, and a study of the principles of rhetoric and composition, with emphasis on the paragraph. Written exercises will be required throughout the course, with criticism and conferences. This course is planned to meet the needs of teachers and others who wish to review their high-school English composition or to study it for the first time.

Text-book: Robins and Perkins, "Introduction to Rhetoric" (Macmillan), revised edition.

2. DESCRIPTION AND NARRATION. Professor GAY. McCoy  
Hall.

Description and narration will be studied, especially as exemplified in the sketch, the tale, the short story, and the one-act play. Constant practice will be afforded in writing, and themes will be criticised in the classroom (anonymously) and in private conferences.



3. FOUNDATIONS OF ENGLISH GRAMMAR. Professor  
McBRYDE. McCoy Hall.

This course, consisting of a history of the English language together with a discussion of problems in English syntax, is designed especially for high school teachers.

Text-book: "Modern English," Krapp (Scribner's).

## ENGLISH LITERATURE

1. SHAKESPEARE. Professor McBRYDE. McCoy Hall.

A careful study will be made of one historical play, *Henry V*; of one comedy, *Twelfth Night*; and of one tragedy, *Hamlet*, including also some discussion of the development of the drama and of the growth of the Elizabethan theatre.

Text-books: "Introduction to Shakespeare," MacCracken, Pierce, and Durham (Macmillan); the one-volume edition of Shakespeare (Oxford University Press).

2. THE GREATER ROMANTIC POETS. Professor McBRYDE.  
McCoy Hall.

In this course special study will be given to those poems of the period indicated which are included among the college entrance requirements, and at the same time an attempt will be made to furnish the students with some idea of the social and philosophic forces which animated the romantic movement in England. The authors to be studied are: Wordsworth, short ballads and lyrics; narrative and pastoral poems, *Michael*; odes and sonnets; Coleridge, *Ancient Mariner* and *Christabel*; Scott, *Lady of the Lake*; Byron, lyrics; narrative and descriptive poems, *Prisoner of Chillon* and *Childe Harold*; satires, *Vision of Judgment*; dramas, *Manfred*; Shelley, *Ode to the West Wind*, *The Cloud*, *To a Skylark*; Keats, *Ode to a Nightingale*, *Ode on a Grecian Urn*, *To Autumn*, and *Eve of St. Agnes*.

Text-book: Bronson's "English Poems," Nineteenth Century (University of Chicago Press).

3. THE NOVEL. Professor GAY. McCoy Hall.

A study of the great novelists of the nineteenth century,—Scott, Dickens, Thackeray, George Eliot, Meredith and Hardy. Students intending to enter the course are urged to read the following novels before entering:—*The Heart of Midlothian*, *David Copperfield*, *Vanity Fair*, *Adam Bede*, *The Ordeal of Richard Feverel* and *The Return of the Native*. These will be made the basis of discussions and short papers. The place of these novels and novelists in the history of fiction and of literature in general will be presented in occasional lectures.



#### 4. GREEK LITERATURE IN ENGLISH. Professor ROBINSON. McCoy Hall.

This course will present the history of Greek literature from Homer to Theocritus, and is intended primarily for students who know no Greek. It will be of value to teachers of English literature and Ancient History. Lectures will be given on the Greek Epic, Iambic, Elegiac, and Lyric poets, followed by an account of the Greek tragedians and comedians, and also of the Greek historians, orators, and philosophers. Constant use will be made of the standard English translations, and the influence of Greek literature on English will be constantly emphasized.

### FRENCH

#### 1. ELEMENTARY FRENCH. M. LEGUY. McCoy Hall.

This course is intended for students who have no knowledge of the language. The work will consist of a study of the essentials of grammar, drill on pronunciation, practice in writing, and extensive reading of texts.

Text-books: Aldrich and Foster, "Foundations of French" (Ginn & Co.); Verne, "Le tour du monde en quatre-vingts jours" (Macmillan); Labiche et Martin, "Le voyage de Monsieur Perrichon" (American Book Co.).

NOTE.—Satisfactory completion of this course will be counted as partial fulfillment of the entrance requirement in French).

#### 2. READINGS IN FRENCH. M. LEGUY. McCoy Hall.

This course is intended for students who have had the equivalent of Course 1, in whole or in part.

Text-books: Sardou, "Les pattes de mouche" (Heath & Co.); About, "La mère de la marquise" (Heath & Co.); Buffum, "French Short Stories" (Holt & Co.).

#### 3. FRENCH COMEDY. M. LEGUY. McCoy Hall.

Students entering this course are supposed to have an accurate knowledge of the essentials of French grammar and the ability to read simple French without difficulty. The minimum of preparation for entrance is the work outlined for Course 1. Work in composition will accompany the reading of texts. Text-books: Molière, "Tartuffe" (Heath & Co.); Marivaux, "Le jeu de l'amour et du hasard" (Macmillan); Beaumarchais, "Le barbier de Seville" (Heath & Co.); Musset, "Trois comédies" (Heath & Co.); Augier, "Le gendre de M. Poirier" (American Book Co.); Pailleron, "Le monde où l'on s'ennuie" (Heath & Co.); Comfort, "French Composition" (Heath & Co.).

## GERMAN

## 1. ELEMENTARY GERMAN. Professor WOOD. McCoy Hall.

The elements of German grammar, accompanied by oral practice and short exercises in writing, after which short stories will be read from *Schwarzwaldleut*, edited Roedder (Holt & Co.).

Text-book: Vos, "Essentials of German" (Holt & Co.).

(NOTE.—Satisfactory completion of this course will be counted as partial fulfillment of the entrance requirement in German).

## 2. READINGS IN GERMAN. Professor WOOD. McCoy Hall.

This course is intended for students who have had the equivalent of Course 1, in whole or in part.

Text-books: Storm, *Auf der Universität*, edited Corwin (Holt & Co.); Arnold, *Einst im Mai*, edited Lovell (Holt & Co.); Keller, *Romeo und Julia auf dem Dorfe*, edited Corwin (Holt & Co.).

## 3. MODERN GERMAN DRAMA. Professor WOOD. McCoy Hall.

For students who possess some facility in reading and writing German. Weekly themes (in German or English) will supplement the course. The subjects for these will be taken from Conrad Ferdinand Meyer's *Gedichte* (Leipzig, Verlag von H. Haessel). For the readings in German drama, the following text-books will be used: Friedrich Hebbel, *Agnes Bernauer*, edited Evans (D. C. Heath & Co.); Gerhart Hauptmann, *Florian Geyer* (Berlin, Verlag von S. Fischer); Gerhart Hauptmann, *Das Friedensfest* (Berlin, Verlag von S. Fischer).

## GREEK

(See courses under Archaeology, English Literature 4, and History 1.)

## HISTORY

## 1. THE HISTORY OF GREECE AND ROME. Dr. MAGOFFIN. McCoy Hall.

This course of lectures and conferences will direct attention to the internal history of Greece and Rome. The archaeology and topography of Greece and Italy and the daily life, manners and faith of their peoples will be discussed in the light of the latest authoritative knowledge.

Text-books: There will be no prescribed text-book, but there will be prescribed reading from a number of specially reserved books.

2. EUROPEAN HISTORY SINCE 1815. Assistant Professor  
MYERS. McCoy Hall.

Beginning with a brief treatment of the reconstruction of Europe after the fall of Napoleon, special attention will be given to the development of Italian and German unity, political and economic reform in England, the movements leading to the present alignment of the powers, and the causes of the last Balkan War.

Text-books: C. D. Hazen, "Europe Since 1815" (Holt); J. W. Headlam, "Bismarck" (Putnam); M. Cesaresco, "Cavour" (Macmillan). Suggestions for further readings also will be made from time to time. (See course in Politics).

3. AMERICAN HISTORY, 1781-1801. Assistant Professor  
MYERS. McCoy Hall.

A consideration of the "critical period," the formation of the Constitution and the national government, and of early constitutional interpretation. Special attention will be given to the methods of gathering materials for the study and teaching of American history.

Text-books: J. Fiske, "The Critical Period of American History" (Houghton, Mifflin and Co.); J. S. Bassett, "The Federalist System" (Harpers); F. S. Oliver, "Alexander Hamilton" (Putnam). Suggestions for further readings also will be made from time to time.

## LATIN

1. CAESAR. Dr. MAGOFFIN. McCoy Hall.

This course will cover the second year of high school Latin. In addition to the reading and interpretation of the text, there will be training in sight reading and prose composition. Especial care will be taken to meet the needs both of the student reading Cæsar for the first time and of the teacher who is reviewing the subject.

Text-books: Walker, "Cæsar's Gallic War" (Scott, Foresman and Co.); Pearson, "Latin Prose Composition" (American Book Co.).

2. HORACE, ODES AND EPODES. Dr. MAGOFFIN. McCoy  
Hall.

This is designed to be a reading course in Latin Poetry, and will cover the equivalent of the second half-year in college Latin I. Due attention will be given to the study of the various Horatian metres.

Text-book: Moore, "Horace, Odes and Epodes" (American Book Co.).

## MANUAL TRAINING AND MECHANICAL DRAWING

## 1. ELEMENTARY MANUAL TRAINING. Mr. GAITHER. Public School No. 79.

Construction in paper, cardboard, weaving, raffia, basketry, simple bookbinding and elementary woodwork. Representative projects in each will be carried out. This course includes handwork processes suitable for the first six years of the elementary schools.

The course is planned to meet the needs of the regular grade teacher, but will also be helpful to others who wish to become familiar with this work as it is carried on in the elementary schools. The models given are such as can be easily reproduced in the regular classroom with a simple equipment.

Manual training exercises suitable for rural schools, where materials and equipment are limited, will be presented. Helpful models illustrating the use of the simplest materials will be employed in demonstrations.

For those who pursued this course in the summer session of 1913 and desire to continue the subject, new work is offered, employing more intricate models, with exercises in materials and methods.

The following topics will be emphasized: Practical work and study of methods. Materials at hand in the various localities and their value. Planning equipment and supplies. Cost. Outlines of course for both city and rural schools.

Laboratory fee, \$1.50.

## 2. BENCH WORK IN WOOD AND MECHANICAL DRAWING. Mr. GAITHER. Public School No. 79.

This course, employing a comprehensive set of bench work tools, and including the elements of joinery and carpentry and mechanical drawing, is planned to prepare the student for teaching bench work in wood in the upper grades of the elementary schools and the lower grades of the secondary schools.

The following topics will be emphasized: Practical instruction in the use of tools; problems involving the various processes of the work suggested by the teacher and carried out by the class; Methods of class presentation and execution; Organization, planning of equipment and supplies; Cost; Outline of course.

For those who pursued this course in the summer session of 1913 and desire to continue the subject, a special course is offered in advanced construction in wood, dealing mainly with projects in simple furniture construction, using both hard and soft woods. Methods of finishing and decorating will also receive attention.

The course in Mechanical Drawing will include the proper use of drawing instruments, and the making and the reading of simple working drawings, used in connection with the course in bench work in wood.

Laboratory fee, \$2.50.

### 3 HAND-WORK FOR TEACHERS OF BACKWARD AND DEFECTIVE CHILDREN. Mr. GAITHER. Public School No. 79.

This course is especially designed to help those who have charge of backward and mentally defective children. Emphasis is laid upon the kind of work to be given and how to present it. The materials and lessons, which have been adapted successfully to the needs of special classes, form a natural sequence, the steps being arranged so as to lead the pupil in an easy manner to a gradual development of muscular control. Conferences, discussions and assigned readings form a part of this course.

Laboratory fee, \$1.50.

## MATHEMATICS

### 1. ALGEBRA. Mr. SMITH. Physical Laboratory.

Beginning with quadratic equations, this course will cover Algebra (b) of the matriculation requirements. (The course is not open to beginners.)

### 2. TRIGONOMETRY. Mr. SMITH. Physical Laboratory.

This course, which will include some preliminary practice in the use of logarithms, is for beginners in the subject, and is designed to meet the matriculation requirements.

### 3. THEORY AND PRACTICE OF TEACHING GEOMETRY IN THE SECONDARY SCHOOL. Mr. SMITH. Physical Laboratory.

This course is designed for teachers in secondary schools, and presupposes a working knowledge of plane geometry. It will include a study of the problems relating to the aims of teaching geometry, the nature of the subject-matter and its relation to algebra, and an illustrative analysis of the best methods of working out theorems and exercises. Attention will also be given to the international reform movement and to the important recent literature.

## MUSIC

The Peabody Conservatory of Music of Baltimore is announcing a summer session of six weeks, July first to August twelfth. Its program includes courses in Public School Music, Normal and Ensemble Classes, Singing, Piano, Organ, Violin, 'Cello and other subjects.

As the buildings of the University and the Conservatory are in



close proximity, students desiring instruction in music will find it convenient to arrange their courses in the two institutions.

Circulars containing full particulars will be sent on application to either the University or the Conservatory.

## PHYSICS

1. ELEMENTARY COURSE IN GENERAL PHYSICS. Associate Professor PFUND. Physical Laboratory.

This course is designed to meet the needs of high school teachers of physics. Lectures, in which the more difficult parts of the subject are emphasized, will be given and instruction in the preparation of simple physical apparatus will be offered.

2. WAVE MOTION, SOUND AND LIGHT. Associate Professor PFUND. Physical Laboratory.

A collegiate course of lectures and demonstrations, based on Ames, "General Physics." A working knowledge of algebra and trigonometry is a pre-requisite to this course.

3. LABORATORY COURSE: WAVE MOTION, SOUND AND LIGHT. Associate Professor PFUND. Physical Laboratory.

A laboratory course accompanying Course 2. The exercises are based on Ames and Bliss, "Manual of Experimental Physics." *Four two-hour periods weekly.*

4. MECHANICS AND HEAT. Associate Professor PFUND. Physical Laboratory.

A collegiate course similar in character to Course 2.

5. LABORATORY COURSE: MECHANICS AND HEAT. Associate Professor PFUND. Physical Laboratory.

A laboratory course accompanying Course 4, and of the same character as Course 3. *Four two-hour periods weekly.*

(NOTE.—Should there be a demand for a college laboratory course in Electricity and Magnetism, such a course will be offered. No student will be permitted to follow more than two college laboratory courses.)



## POLITICS

CONSTITUTIONAL GOVERNMENT. Assistant Professor MYERS.  
McCoy Hall.

A comparative study of national government and administration in the United States, England, France, Germany and Switzerland. This course is arranged especially to accompany the course on European History Since 1815, if so desired by the student.

Text-books: F. A. Ogg, "The Governments of Europe" (Macmillan); W. Wilson, "Constitutional Government in the United States" (Columbia University Press); S. Low, "The Governance of England" (Putnam). Also selected readings from W. Wilson, "The State" (Heath), and A. V. Dicey, "The Law of the Constitution" (Macmillan).

## SPANISH

ELEMENTARY SPANISH. Dr. SOHO. McCoy Hall.

This course is intended for students who have no knowledge of the language. The work will consist of a study of the essentials of grammar, drill on pronunciation, written and oral exercises, and reading.

Text-books: Ingraham-Edgren, "Brief Spanish Grammar"; Geddes and Josselyn, "Gil Blas" (Heath and Co.); Morrison, "Tres comedias modernas" (Holt and Co.).

## SCHEDULE

## 8.30—9.20

Archæology  
 Domestic Science 1  
 (8.30—10.20)  
 Education 6  
 English Composition 3  
 German 3  
 History 3  
 Latin 1  
 Manual Training 2  
 (8.30—10.20)  
 Mathematics 2  
 Physics 2

## 9.30—10.20

Biology 1  
 Domestic Science 1  
 (Continued)  
 Education 3  
 English Literature 2  
 German 2  
 History 1  
 Manual Training 2  
 (Continued)  
 Mathematics 1

## 9.30—11.20

Education 9 (Demonstration School)

## 10.30—11.20

Domestic Science 2  
 (10.30—12.20)  
 Education 1  
 Education 7  
 English Composition 2  
 English Literature 4  
 French 1  
 German 1

History 2  
 Manual Training 1  
 Physics 1  
 Spanish

## 11.30—12.20

Chemistry 1  
 Domestic Science 2  
 (Continued)  
 Education 4  
 Education 8  
 English Composition 1  
 English Literature 1  
 French 2  
 Manual Training 3  
 Politics

## 12.30—1.20

Biology 2  
 Education 2  
 Education 5  
 English Literature 3  
 French 3  
 Latin 2  
 Mathematics 3  
 Physics 4

## 1.30—2.20

Chemistry 2 (Tu. Th.)  
 Chemistry 3 (M. W. F.)

## 2.30—4.20

Biological Laboratory  
 Chemistry 4  
 Chemical Laboratory  
 Domestic Science 3  
 Physics 3 and 5  
 Psychological Laboratory

## The Johns Hopkins Press of Baltimore

- American Journal of Insanity.** Board of Editors. Quarterly. 8vo. Volume LXX in progress. \$5 per volume.
- American Journal of Mathematics.** FRANK MORLEY, Editor. Quarterly. 4to. Volume XXXVI in progress. \$5 per volume. (Foreign postage, fifty cents.)
- American Journal of Philology.** B. L. GILDERSLEEVE, Editor. Quarterly. 8vo. Volume XXXV in progress. \$3 per volume. (Foreign postage, fifty cents.)
- Beiträge zur Assyriologie und semitischen Sprachwissenschaft.** PAUL HAUPT and FRIEDERICH DELITZSCH, Editors. Volume X in progress.
- Hesperia: Schriften zur germanischen Philologie.** HERMANN COLLITZ, Editor. Six numbers have appeared.
- Johns Hopkins Hospital Bulletin.** Monthly. 4to. Volume XXV in progress. \$2 per year. (Foreign postage, fifty cents.)
- Johns Hopkins Hospital Reports.** 8vo. Volume XVII in progress. \$5 per volume. (Foreign postage, fifty cents.)
- Johns Hopkins University Circular, including the President's Report, Annual Register, and Medical Department Catalogue.** T. R. BALL, Editor. Monthly. 8vo. \$1 per year.
- Johns Hopkins University Studies in Historical and Political Science.** Under the direction of the Departments of History, Political Economy, and Political Science. Monthly. 8vo. Volume XXXII in progress. \$3 per volume.
- Modern Language Notes.** Edited by E. C. ARMSTRONG, J. W. BRIGHT, B. J. VOS, and C. C. MARDEN (Managing Editor). Eight times yearly. 4to. Volume XXVIII in progress. \$2 per volume. (Foreign postage, twenty-five cents.)
- Reprint of Economic Tracts.** J. H. HOLLANDER, Editor. Third series in progress. \$2.00.
- Reports of the Maryland Geological Survey.** Edited by W. B. Clark.
- Terrestrial Magnetism and Atmospheric Electricity.** L. A. BAUER, Editor. Quarterly 8vo. Volume XIX in progress. \$3 per volume. (Foreign postage, twenty-five cents.)
- 
- PHOTOGRAPHIC REPRODUCTION OF THE KASHMIRIAN ATHARVA-VEDA.** M. Bloomfield, Editor. 3 vols. Folio. \$50.
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- THE TAIL OF RAUF COILYEAR.** Edited by William Hand Browne. 164 pp. 8vo. \$1.00 net.
- STUDIES IN HONOR OF PROFESSOR GILDERSLEEVE.** 527 pp. 8vo. \$6.
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BALTIMORE

FOUNDED 1876

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SUMMER COURSES

JULY 5 - AUGUST 12

1915

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BALTIMORE, MARYLAND

PUBLISHED BY THE UNIVERSITY

ISSUED MONTHLY FROM OCTOBER TO JULY

MARCH, 1915

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New Series, 1915, No. 3]  
[Whole Number, 273]

Entered, October 21, 1903, at Baltimore, Md., as second class matter, under  
Act of Congress of July 16, 1894

UNIVERSITY OF ILLINOIS

JUL 15 1915

PRESIDENT'S OFFICE

## CALENDAR, 1915

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June 8, Tuesday—Commencement Day.

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July 1, Thursday— }  
July 2, Friday— } 9 a. m. to 5 p. m., Registration at the office  
July 3, Saturday— } of the Registrar, McCoy Hall.

July 5, Monday—8.30 a. m., Instruction in the Summer Courses begins.

July 10, Saturday—Classes meet as usual.

August 12, Thursday—Examinations and close of Summer Courses.

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October 5, Tuesday—Fortieth regular session begins.

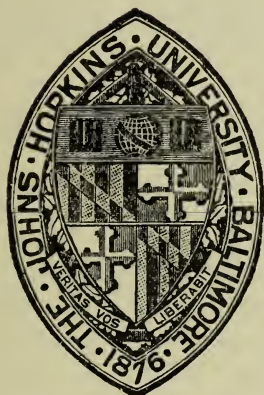
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All work will begin promptly on Monday morning, July 5. It is important that students should reach Baltimore in time to be present at the opening exercises in each class. Registration may be made by mail prior to July 5.



# SUMMER COURSES

1915



BALTIMORE  
THE JOHNS HOPKINS PRESS  
1915

THE JOHNS HOPKINS UNIVERSITY  
SUMMER COURSES

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OFFICERS OF ADMINISTRATION

FRANK J. GOODNOW, LL. D.  
*President of the University*

EDWARD F. BUCHNER, PH. D.  
*Director of the Summer Courses*

THOMAS R. BALL,  
*Registrar*

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*Treasurer*

# THE JOHNS HOPKINS UNIVERSITY CIRCULAR

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New Series, 1915, No. 3

MARCH, 1915

Whole Number, 273

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## GENERAL STATEMENT

The fifth year of the Summer Courses of the Johns Hopkins University will open on Monday, July 5, and continue until Thursday, August 12, inclusive. Exercises in each subject will be held every week-day, Monday to Friday. In addition, on *Saturday, July 10, classes will meet as usual*. Each course will consist of thirty class exercises or their equivalent. In the sciences laboratory work will be additional. Examinations will be held at the close of the courses.

As the summer courses are authorized by the Trustees, and their credits fixed by the Boards of University and Collegiate Studies, they are an integral part of the work of the University. All the resources of the institution essential to their conduct are placed at the disposal of the students. These resources include the use not only of the academic buildings, but also of the general and departmental libraries, laboratories, and gymnasium.

The principal object of the University in making provision for the summer work is to furnish instruction to teachers in all grades of schools, and to other persons who seek opportunities for instruction, with or without reference to an academic degree. Some courses offered are designed to meet the needs of graduate and collegiate students who wish to advance their standing or to make up deficiencies; others,

to enable non-matriculated students to absolve in part the entrance requirements. Also courses in some subjects not given in the regular session are offered to meet special needs of schools.

#### CHARACTER OF INSTRUCTION

The courses maintain the standard of instruction which characterizes the work of the regular session in the subjects representing graduate and collegiate departments, as well as in those introduced to meet the special needs of teachers. In addition to the regular class exercises, instructors hold daily conferences, in which the work of the courses is supplemented and adapted to the particular needs of individuals.

#### DEMONSTRATION AND OBSERVATION SCHOOLS

There will be conducted at the University during the session an elementary school of seven grades, designed primarily to demonstrate typical means and material for more effective teaching in rural schools.

It is expected that graded vacation schools, including a vocational school, will be in operation in the city and available for observation in connection with some of the work in the courses in education.

Opportunity will thus be afforded superintendents, principals, supervisors and teachers to consider concretely many problems in elementary instruction.

#### ACADEMIC CREDIT

Graduate courses, leading to the degree of Master of Arts, will be credited by the respective departments in accordance with the rule of the Board of University Studies: the requirement of one of the two-years residence for this degree may be met by attendance and study in three sessions of the Summer Courses. These courses are designated by *G*.

For the satisfactory completion of the work of any course of collegiate grade a credit of not more than one-half a regular course will be allowed. These courses are designated by *C*.

The exact amount of credit earned by each student will be determined by the instructor according to the work accomplished, subject to the approval of the Director.

Of the courses given in one summer session, collegiate students in this University may offer for credit not more than two courses. In such cases registration and attendance will be strictly limited to the courses so offered.

Students not matriculated in the University may receive certificates of attendance and of the amount of work satisfactorily performed. These certificates will indicate the value of the work done in each course, and in most instances will be accepted by State, County, and City Superintendents and Boards of Examiners in the extension or renewal of teachers' certificates, according to law.

#### ADMISSION AND ATTENDANCE

There are no formal examinations for admission. Students, both men and women, will be admitted to such courses as they are found qualified by the respective instructors to pursue with advantage.

The session will open promptly on July 5, carrying out the schedule provided on page 3 of cover. Students are advised to register in advance of the opening.

The Registrar's office (McCoy Hall, first floor) will be open for registration of students on Thursday, July 1, Friday, July 2, Saturday, July 3, and Monday, July 5, from 9 a. m. to 5 p. m. Students should register without delay. After July 8, admission to each course will be restricted to registered students. After July 12 no change of courses will be allowed.

All fees, including both tuition and special laboratory fees, must be paid to the Treasurer immediately upon registration.

## LOCATION

The University buildings are situated on Monument street and Druid Hill avenue, between Howard and Eutaw streets.

By courtesy of the Baltimore Board of School Commissioners, the instruction in Domestic Science and Art and in Manual Training will be given in Public School No. 79, Park avenue and Hoffman street.

## EXPENSES

The tuition fee is \$25.00, payment of which entitles the student to attend as many as three courses. (Under very exceptional circumstances, a student may register in one course only. The tuition fee in such cases will be \$15.00). The fee for Playground and Recreation courses, if taken alone or together, or in addition to the maximum of three courses in other subjects, is stated on page 23.

Additional fees are required for materials used in some of the courses. (For details, see statement of courses). No reduction of fees will be allowed for late entrance; nor for withdrawal, except on account of illness or other serious and unavoidable causes.

## BOARD AND LODGING

The University has no dormitories. Comfortable furnished rooms in private homes in the vicinity of the University are offered for rent at prices ranging from \$1.50 to \$3.00 per week for a single room, and \$3.00 to \$7.00 a week for a suite of rooms. Board can be had in private boarding-houses or in public restaurants at prices ranging from \$3.50 to \$5.00 per week. A printed list of boarding and lodging houses will be sent upon request.



## LECTURES AND RECITALS

In addition to the social opportunities afforded by the opening and closing receptions, students are invited to the lectures and recitals which will be given every Wednesday afternoon and Friday evening, in co-operation with the Summer Session of the Peabody Conservatory of Music.

## EXCURSIONS

Saturday excursions will be made to Annapolis, the State capital, and Washington, D. C., both within an hour's ride by trolley, and to points of interest in and about Baltimore.

## UNIVERSITY POST-OFFICE

The University post-office, in McCoy Hall, will be open. Students may have their mail addressed in care of the Johns Hopkins University.

## SUMMER COURSES FOR GRADUATES IN MEDICINE

Beginning June 1st and extending for six weeks, the Medical School of the Johns Hopkins University, in co-operation with the Johns Hopkins Hospital, offers to graduates in medicine courses in Medicine, Surgery and the various specialties as well as in several of the underlying scientific branches. The special circular describing these courses and any other information concerning them may be obtained by addressing the Dean of the Johns Hopkins Medical School, Washington and Monument Sts. The fees vary from \$25. to \$125. according to the number and character of the courses taken.

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## INSTRUCTORS

- JOHN AUGUST ANDERSON, PH. D. *Physics*  
Associate Professor of Astronomy.
- BIRD T. BALDWIN, PH. D. *Educational Psychology*  
Professor of Psychology and Education, Swarthmore College.
- ANNA BROCHHAUSEN, A. B. *Elementary Education*  
Supervising Principal, Indianapolis Public Schools.
- EDWARD F. BUCHNER, PH. D. *Director*  
Professor of Education and Philosophy.
- JOHN L. CLARKE *Playground and Recreation*  
Field Leader, Public Athletic League, Baltimore.
- ARTHUR BYRON COBLE, PH. D. *Mathematics*  
Associate Professor of Mathematics.
- CLARENCE G. COOPER, B. S. *Elementary Education*  
Supervisor of Rural Schools, Baltimore County, Maryland.
- KNIGHT DUNLAP, PH. D. *Psychology*  
Associate Professor of Psychology.
- GEORGE M. GAITHER *Manual Training*  
Instructor, Baltimore Polytechnic Institute, and Supervisor of Manual Training Centres, Baltimore Public Schools.
- J. ELLIOTT GILPIN, PH. D. *Chemistry*  
Collegiate Professor of Chemistry.
- MARY E. GROSS, A. P. *Playground and Recreation*  
Supervisor, Children's Playground Association, Baltimore.
- GUSTAV GRÜNBAUM, PH. D. *French*  
Instructor in Romance Languages.
- CLARENCE W. HEWLETT, PH. D. *Physics*  
Assistant in Physics.
- A. GRACE JOHNSON *Domestic Science*  
Supervisor of Domestic Science and Art, Kokomo, Indiana.
- ALFRED ALLAN KERN, PH. D. *English*  
Professor of English, Millsaps College.
- JOHN H. LATANÉ, PH. D. *History and Politics*  
Professor of American History.

- EDITH ANNE LATHROP, A. B. *Rural Education*  
Assistant Superintendent of Public Instruction, Nebraska.
- HERBERT C. LIPSCOMB, PH. D. *Latin and History*  
Professor of Latin, Randolph-Macon Woman's College.
- BENJAMIN F. LOVELACE, PH. D. *Chemistry*  
Associate Professor of Chemistry.
- WM. STARR MYERS, PH. D. *History and Politics*  
Assistant Professor of History and Politics, Princeton University.
- ROBERT L. RAMSAY, PH. D. *English*  
Associate Professor of English, University of Missouri.
- ROBERT B. ROULSTON, PH. D. *German*  
Associate in German.
- GRACE E. RUSSELL, E. S. *Domestic Art*  
Professor of Domestic Art, Iowa State College of Agriculture and Mechanic Arts.
- ASA A. SCHAEFFER, PH. D. *Biology*  
Associate Professor of Zoology, University of Tennessee.
- ARISTOGEITON M. SOHO, PH. D. *Spanish*  
Instructor in Spanish and French, Baltimore City College.
- LEONORA A. TAFT, A. M. *Elementary Education*  
Superintendent of Schools, Woodstock, Vermont.
- HENRY S. WEST, PH. D. *Secondary Education*  
Director of School Affiliation and Professor of Secondary Education, University of Cincinnati.
- WILLIS H. WILCOX, PH. M. *English*  
Head of Department of English, Maryland State Normal School.
- HENRY WOOD, PH. D. *German*  
Professor of German.
-

## COURSES OF INSTRUCTION

### BIOLOGY

1. BOTANY. Associate Professor SCHAEFFER. Biological Laboratory. C. 9.30

The main part of the laboratory work will be the study of the life histories and structure of a liverwort, a fern, and a seed plant, supplemented by less detailed work upon a few other forms such as an alga, chara, and a moss. There will also be occasional field excursions for the purpose of collecting and identifying about fifty plants representing the main divisions of the plant kingdom. The lectures will deal with the more essential facts of the morphology and physiology of plants.

2. ZOOLOGY. Associate Professor SCHAEFFER. Biological Laboratory. C. 12.30

The laboratory work of this course consists of a rather intensive study of such representative animals as amoeba, hydra, an earthworm, a crayfish and a frog. The behavior of these animals as well as their structure will be studied. In addition to this work there will be occasional field excursions to streams, forests, and open fields, for the purpose of becoming better acquainted with the habitats of animals. The lectures will supplement, for the most part, the work in the laboratory, but a few lectures will be devoted to the more general problems of zoological science.

Laboratory fee: \$1.00 for one, or both courses.

### CHEMISTRY

1. ORGANIC CHEMISTRY. Professor GILPIN. Chemical Laboratory. G. 12.30

This course is intended for those who have had a thorough training in inorganic chemistry and will be suited to the needs of graduate students in chemistry and those who wish to prepare for entrance to the Medical School.

Text-books: Remsen, "Organic Chemistry" (Heath & Co.), and Norris, "Organic Chemistry" (McGraw, Hill Book Co.).

2. THE PRINCIPLES OF ANALYTICAL CHEMISTRY. Associate Professor LOVELACE. Chemical Laboratory. G. 8.30

A course of lectures for advanced students.

3. INORGANIC REACTIONS AND INORGANIC PREPARATIONS.  
Associate Professor LOVELACE. Chemical Laboratory.  
G. 1.30-4.20

A laboratory course.

4. QUANTITATIVE ANALYSIS. Associate Professor LOVELACE.  
Chemical Laboratory. G. 9.30-12.20

A laboratory course.

5. HOUSEHOLD CHEMISTRY. Professor GILPIN. Chemical  
Laboratory. C. 1.30

This course is intended for those who have taken courses in elementary chemistry and domestic science. Two lectures each week will be devoted to a study of fuels, combustion, oxidation, air, water (its analysis and purification), food principles, preparation and testing of food and preservatives.

Three lectures each week will be given to a discussion of the principles of organic chemistry, and the preparation and properties of organic compounds, with special reference to the reactions and substances which have a bearing on household chemistry.

Text-book: Remsen, "Organic Chemistry" (Heath & Co.).

6. INTRODUCTION TO GENERAL CHEMISTRY. Professor GILPIN. Chemical Laboratory. C. 11.30

No previous knowledge of chemistry is required for this course. It will include, as far as possible in the time allowed, a study of the more important non-metallic and metallic elements and their properties. Remsen's "Chemistry" (Briefer Course) will be used as a basis for the classroom and laboratory work.

Laboratory fees: \$5.00 for one course, or for morning or afternoon work; \$8.00 for two courses, or for work all day. (The fee for materials does not include the cost of small pieces of apparatus not returnable and the charge for breakage to be paid at the close of the session. This additional expense averages about \$2.00.)

## DOMESTIC SCIENCE AND ART

1. ELEMENTARY COOKERY. Miss JOHNSON. Public School  
No. 79. C. 8.30-10.20

The purpose of this course is to give a working knowledge of the elementary principles of cookery. The course will deal with food preparation based on a knowledge of the composition of foods, and the chemical changes produced by heat and moisture; utensils, apparatus, weights, measures and fuel will be studied. Planning and serving of simple meals are included in this course.

Prerequisite or Parallel:—Chemistry 1.

Laboratory fee: \$5.00.



2. **ADVANCED COOKERY.** Miss JOHNSON. Public School No. 79. *C.* 10.30-12.20

The purpose of this course is to give more advanced work in food preparation. Preservation of fruits and vegetables by preserving, canning and jelly making will be given.

Comparative food values and cost of materials involved will be studied. Special attention will be given to planning of meals under varying conditions. There will be demonstrations in the planning and serving of breakfast, dinner and supper.

Prerequisite: Course 1, or its equivalent.

Parallel:—Chemistry 5.

Laboratory fee: \$5.00.

3. **METHODS OF TEACHING DOMESTIC SCIENCE.** Miss JOHNSON. Public School No. 79. *C.* 12.30

This course deals with the problems of teaching Domestic Science. The educational value, the place in curriculum, equipment for teaching, planning of lessons and methods of presenting work will be considered. Opportunity will be given for practice teaching in Domestic Science.

This course is open to all former students of Domestic Science and to new students who have had the equivalent of Course 1.

Laboratory fee: \$2.00.

4. **ELEMENTARY CLOTHING AND HAND WORK.** Professor RUSSELL. Public School No. 79. *C.* 1.30-4.20

This course will include practice in hand and machine sewing, making fundamental stitches, drafting, altering and use of patterns, garment making, and simple embroidery. Students provide material approved by the instructor—approximate cost, \$5.00.

Laboratory fee: \$2.00.

5. **DRAFTING, DRAPING AND COSTUME DESIGN.** Professor RUSSELL. Public School No. 79. *C.* 8.30-11.20

This course, designed to meet the needs of high and normal school teachers, will provide practice in drafting, cutting, fitting and designing patterns, draping on the form without pattern, and offers opportunity for a study of color harmony in costumes. Individual dress-making projects may be undertaken. Students provide material approved by the instructor, the cost to be determined individually.

Laboratory fee: \$2.00.

## EDUCATION

1. THE ADMINISTRATION OF SECONDARY EDUCATION. Professor WEST. McCoy Hall. *G.* 8.30

This course will consider secondary school problems from the view point of the superintendent, principal, supervisor, and the graduate student and teacher preparing to become executives. Lectures, readings and assignment of special problems.

Text-books: "Principles of Secondary Education," Monroe (Macmillan); "Administration of Public Education," Dutton and Snedden (Macmillan).

2. ADOLESCENCE. Professor BALDWIN. McCoy Hall. *G.* 9.30

This course in educational psychology will deal with the development of physical and mental traits, and individual differences during adolescence, including such topics as physiological age, social and individualistic instincts, juvenile delinquency and vocational guidance. Lectures, readings, reports, and assignment of a problem to each student.

3. SECONDARY SCHOOL TEACHING. Professor WEST. McCoy Hall. *G.* 10.30

In considering the problems of secondary school teaching, attention will be given to such topics as educational values, purposes of the recitation, types of teaching, organization of subject-matter and planning lessons, and demonstration of results.

Text-book: "Teaching in High Schools," Parker (Ginn & Co.).

4. PRINCIPLES OF EDUCATION. Professor BALDWIN. McCoy Hall. *G* and *C.* 12.30

A study of the principles underlying the science and practice of education will be the purpose of this course. Supplementary to the text, it will include an analysis of the learning process and a summary of the results of type studies in experimental education, illustrated by class demonstrations and experiments.

Text-book: "Principles of Education," Ruediger (Houghton-Mifflin Co.)

5. THE ELEMENTARY SCHOOL: GRAMMAR GRADES. Miss TAFT. McCoy Hall. *C.* 11.30

This course will present the theory and practice of teaching in the grades from the fourth to the eighth, inclusive. Emphasis will be placed on the characteristics of pupils as they change from grade to grade; the adaptation of methods to these changes; the

specific and difficult problems of the course of study; the needs of the varying individualities of grammar grade pupils. Attention will be given to the present vocational trend in elementary education. Outside reading and written reports will be required.

6. THE ELEMENTARY SCHOOL: PRIMARY GRADES. Miss BROCHHAUSEN. McCoy Hall. C. 12.30

By means of lectures and discussions this course will consider the problems peculiar to the first, second, and third grades of the elementary school. The subject matter for each grade will be outlined, and effective methods for presenting the material will be given. Outside reading and written reports will be required.

7. THE TEACHING OF ENGLISH AND HISTORY IN THE ELEMENTARY SCHOOL. Miss BROCHHAUSEN. McCoy Hall. C. 8.30

The first part of this course of lectures, reports, and discussions will be devoted to the teaching of English in the eight grades of the elementary school. Special emphasis will be placed upon the teaching of oral and written composition, the correlation between composition and literature, and the relation of spelling and grammar to composition. It will be shown how composition can be kept interesting and made vital to children. The second half of the course will be devoted to the subject-matter of history and the problems of teaching it in the elementary school.

8. THE TEACHING OF ARITHMETIC AND GEOGRAPHY IN THE ELEMENTARY SCHOOL. Miss TAFT. McCoy Hall. C. 10.30

The first half of this course will be devoted to the teaching of arithmetic throughout the eight grades of the elementary school.

The second half of the course will give attention to the subject matter of geography and to methods of teaching it so as to develop its relations to nature study and agriculture.

Outside reading and written reports will be required.

9. RURAL SCHOOL PROBLEMS. Miss LATHROP. McCoy Hall. C. 11.30

In this course an opportunity will be given for a discussion of the principles illustrated in the demonstration school. The prime need of a thorough organization of the rural school will be emphasized. In this connection it will be shown how many problems of discipline can be avoided by thorough organization. Emphasis will be placed upon the necessity of preparation of lessons on the part of the rural teacher; and the advantages of keeping daily plan books will be discussed. In the introduction of vocational subjects into the course of study an attempt will be made to show how the life of the school may be made to respond to the life of the community.

10. A DEMONSTRATION SCHOOL: OBSERVATION COURSE.  
Miss LATHROP. McCoy Hall. C. 9.30-11.20

The purpose of this school will be to illustrate by the laboratory method the organization of a rural school showing the alternation and combination of subjects and grades. Illustrative lessons will also be given in the subjects outlined in the state course of study. In these model lessons emphasis will be placed upon the correlation and vitalization of material. Attention will be given to seat work practicable in a rural school. In short, the aim will be an attempt to solve the problems that arise in a one-teacher rural school.

The tuition fee for Course 10 alone is \$25.00.

11. THE PRINCIPLES OF ELEMENTARY TEACHING. Mr.  
COOPER. McCoy Hall. 8.30

This course will study the principles of teaching in their application to the state elementary course of study, including special methods in teaching the various subjects throughout the grades. Review of subject-matter will be made wherever necessary. The course will be based on the Maryland Teachers' Manual and Course of Study (issued in 1914), and is especially designed, in connection with Course 12, to meet the new legal requirement of persons wishing to secure the minimum preparation for teaching.

12. SCHOOL MANAGEMENT AND SCHOOL LAW. Mr. COOPER.  
McCoy Hall. 12.30

In close connection with Course 11, the problems of the organization of a school, program making, class and pupil management, text-books, supplies and apparatus, care and supervision of school property, the legal duties of teachers, trustees and school boards, as officers of the state; contracts, records and reports will be studied so as to meet the needs of inexperienced teachers. The work will be based on the Maryland School Law and Elementary Course of Study.

## ENGLISH COMPOSITION

1. DESCRIPTION AND NARRATION. Associate Professor RAM-  
SAY. McCoy Hall. C. 10.30

An advanced composition course in the imaginative forms of writing, including especially the photo-play, the one-act drama, the tale, and the modern short story. There will be regular practice in writing these forms, in connection with the reading and study of selected models, and conferences for criticism.

2. EXPOSITORY WRITING. Associate Professor RAMSAY.  
McCoy Hall. C. 8.30

A course in the theory and practice of various kinds of composition, dealing chiefly with the construction and organization of ex-

pository writing. Exercises in logical analysis and critical study of specimens of current exposition. Of the same grade as the first college year.

3. SENTENCE AND PARAGRAPH STRUCTURE. Mr. WILCOX.  
McCoy Hall. 12.30

Such subjects as the forms of sentence and paragraph structure will be studied through the use of models, with constant practice in composition. This work will be accompanied by class criticisms and personal conference.

4. ELEMENTS OF ENGLISH COMPOSITION. Mr. WILCOX.  
McCoy Hall. 11.30

This course is planned for teachers who feel the need of more training in the fundamental principles of composition. These principles will be studied and applied in actual composition. Written work will be required throughout the course, accompanied by class criticism and personal conferences.

## ENGLISH LITERATURE

1. ENGLISH LITERARY MOVEMENTS OF THE PRESENT. Associate Professor RAMSEY. McCoy Hall. G. 11.30.

A study of some representative writers of the last twenty-five years, with particular attention to the two conflicting literary movements of imperialism and nationalism or regionalism as they have found expression in recent English poetry and fiction. A considerable amount of parallel reading will be required, with short papers based upon it. Those who desire to obtain graduate credit for the course may do so by writing a special assigned essay.

2. THE POEMS AND DRAMAS OF TENNYSON. Professor KERN. McCoy Hall. G. 12.30

The purpose of this course will be to study Tennyson as the supreme representative of the Victorian era. Parallel work will be assigned in *Harold and Becket*. *Poetical Works of Tennyson* (Globe or Cambridge edition).

3. THE POEMS AND DRAMAS OF BROWNING. Professor KERN. McCoy Hall. G. 9.30

A study of the message of Browning as revealed in certain of his poems. Parallel work will be assigned in *A Blot in the 'Scutcheon* and in *Colombe's Birthday*. *Poetical Works of Robert Browning* (Globe or Cambridge edition).



## 4. ANGLO-SAXON. Professor KERN. McCoy Hall. G. 8.30

A course in Anglo-Saxon grammar, followed by the translation of selections from Anglo-Saxon prose and poetry. The relation of modern English grammar to that of Anglo-Saxon will be stressed.

Text-book: "An Anglo-Saxon Reader," Bright (Holt, 1913).

(If circumstances warrant, a study of Cynewulf and his School, including a reading of the *Andreas* and the *Elene*, may be substituted.)

## FRENCH

1. FRENCH ROMANTICISM. Dr. GRÜNBAUM. McCoy Hall.  
C. 12.30

Students entering this course are supposed to have an accurate knowledge of the essentials of French grammar and the ability to read simple French without difficulty. The minimum of preparation for entrance is the work outlined for Courses 2 and 3. Work in composition will accompany the reading of texts.

Text-books: Chateaubriand, *Atala* (Heath & Co.); Hugo, *Hernani* (American Book Co.); Hugo, *Quatre-vingt-treize* (Heath & Co.); Lamartine, *Graziella* (Heath & Co.); Musset, *Trois comédies* (Heath & Co.); Canfield, *French Lyrics* (Holt & Co.); Comfort, *French Prose Composition* (Heath & Co.).

2. READINGS IN FRENCH. Dr. GRÜNBAUM. McCoy Hall.  
C. 11.30

This course is intended for students who have had the equivalent of Course 3 in whole or in part.

Text-books: Pailleron, *Le Monde où l'on s'ennuie* (Ginn & Co.); Mérimée, *Colomba* (Ginn & Co.); Maupassant, *Ten Short Stories* (Ginn & Co.); Bouvet, *French Syntax and Composition* (Heath & Co.).

3. ELEMENTARY FRENCH. Dr. GRÜNBAUM. McCoy Hall.  
10.30

The work will consist of a study of the essentials of grammar, drill on pronunciation, practice in writing, and careful reading of texts.

Text-books: Aldrich and Foster, *Foundations of French* (Ginn & Co.); Bruno, *Le Tour de la France* (Holt & Co.); About, *La Mère de la Marquise* (Heath & Co.).

NOTE.—Satisfactory completion of this course will be counted as partial fulfilment of the entrance requirements in French.

## GERMAN

1. GOETHE'S AND SCHILLER'S LATER CLASSICAL DRAMAS.  
Professor WOOD. McCoy Hall. G. 10.30

Special emphasis will be given to the development of the modern and the romantic elements. Students are requested to procure Goethe's *Werke*, Jubiläums-Ausgabe, Vols. 9 and 12; Schiller's *Werke*, Säkular-Ausgabe, Vols. 6, 7, 8.

2. ORIGIN AND DEVELOPMENT OF MODERN GERMAN. Professor WOOD. McCoy Hall. G. 8.30

Students are requested to procure O. Behagel, *Die Deutsche Sprache*, Wien und Leipzig; F. Kluge, *Unser Deutsch*, 3. Auflage, Leipzig, 1914.

3. ADVANCED GERMAN. Dr. ROULSTON. McCoy Hall. G. and C. 9.30

This course will presuppose considerable facility in reading German. The works of Conrad Ferdinand Meyer will form the basis of study. Students intending to enter the course should procure Meyer's "Werke" (Leipzig, Haessel, 9 Bände) and should familiarize themselves at least with the "Gedichte," "Jürg Jenatsch," "Der Heilige," and several of the "Novellen." One essay will be required of each member of the class. Supplementary work required for graduate credit.

4. READINGS IN GERMAN. Dr. ROULSTON. McCoy Hall. C. 8.30

Intended for those who already have some knowledge of the language.

Text-books: Raabe, *Eulenspdingsten*, edited Lambert (Heath & Co.); Stern, *Die Wiedertäufer*, edited Sturm (Heath & Co.); Stifter, *Brigitta*, edited Crowell (Oxford German Series).

Prose composition: Whitney and Stroebe, *Easy German Composition* (Holt & Co.)

5. ELEMENTARY GERMAN. Dr. ROULSTON. McCoy Hall. 10.30

In this course emphasis will be laid primarily upon the grammar of the language. It will meet the needs of those beginning the language and of such as desire a thorough review in the grammar.

Text-book: Vos, "Essentials of German," 4th edition, 1914 (Holt & Co.)

NOTE.—Satisfactory completion of this course will be counted as partial fulfillment of the entrance requirements in German.

## HISTORY

1. LATIN-AMERICAN HISTORY AND DIPLOMACY. Professor LATANÉ. McCoy Hall. *G*. 11.30

The Spanish colonial system, causes of the revolt, recognition of the new republics by the United States and England, the formulation of the Monroe Doctrine, its applications and development, political history of the Latin-American countries, commercial and financial relations with Europe, Pan-Americanism, the A B C policy, and the advance of the United States in the Caribbean.

2. AMERICAN HISTORY, 1820-1860. Professor LATANÉ. McCoy Hall. *G*. 10.30

The political, diplomatic, and economic history of the United States from the Missouri Compromise to the beginning of the Civil War. A study of the sources as well as of the standard authorities will be required.

3. AMERICAN HISTORY, 1781-1801. Assistant Professor MYERS. McCoy Hall. *G* and *C*. 8.30

A consideration of the "critical period," the formation of the Constitution and the national government, and of early constitutional interpretation. Special attention will be given to the methods of gathering materials for the study and teaching of American history.

Text-books: J. Fiske, "The Critical Period of American History" (Houghton, Mifflin and Co.); J. S. Bassett, "The Federalist System" (Harpers); F. S. Oliver, "Alexander Hamilton" (Putnam). Suggestions for further readings also will be made from time to time.

4. ENGLISH HISTORY, 1485-1688. Assistant Professor MYERS. McCoy Hall. *C*. 10.30

A study of the Tudor and Stuart periods.

Text-books: A. L. Cross, "A History of England and Greater Britain" (Macmillan); A. F. Pollard, "Henry VIII" (Longmans). Selections for further reading also will be assigned from time to time.

5. ROMAN HISTORY. Professor LIPSCOMB. McCoy Hall. *C*. 9.30

A survey of Roman history from the beginning to the fall of the Western Empire. Emphasis will be laid upon the development of

the Roman constitution and upon the social life of the late Republic and early Empire. Lectures, recitations, private reading.

Text-books: Webster, "Ancient History" (Heath & Co.); Webster, "Reading in Ancient History" (Heath & Co.). McKinley's "Illustrated Topics for Ancient History" will also be used.

## LATIN

1. TACITUS, ANNALS. Professor LIPSCOMB. McCoy Hall. C. 12.30

A study of the reign of Tiberius. There will be discussions of Tacitus as a historian and representative of "Silver" Latin. This course will cover the equivalent of the first half-year in college Latin II.

Text-book: Allen, "The Annals of Tacitus, Books I-VI" (Ginn & Co.).

2. CICERO. Professor LIPSCOMB. McCoy Hall. 8.30

This course will cover the third year of high school Latin. In addition to the reading and interpretation of the text, there will be training in sight reading and prose composition. Special attention will be given to the study of Cicero's life and times. Selections from the Letters will be read along with the Orations.

Text-books: Johnston and Kingery, "Cicero's Orations and Letters" (Scott, Foresman & Co.); Kirtland, "Selections from the Correspondence of Cicero" (American Book Co.); Pearson, "Latin Prose Composition" (American Book Co.).

## MANUAL TRAINING

1. ELEMENTARY MANUAL TRAINING. Mr. GAITHER. Public School No. 79. C. 10.30

This course includes handwork processes in paper, cardboard, weaving, raffia, basketry, bookbinding and woodwork suitable for the first six years of the elementary schools, and in materials suitable for rural schools. Outlining courses, planning equipment, and study of methods will be considered.

Those desiring training as playground and recreation leaders will find this course adapted to meet their needs.

Laboratory fee: \$1.50.

2. BENCH WORK IN WOOD AND MECHANICAL DRAWING. Mr. GAITHER. Public School No. 79. C. 8.30-10.20

This course includes the theory and practice in teaching the use of tools and bench work in wood in the upper elementary and lower secondary grades, the use of drawing instruments and making simple working drawings, outlining courses, planning equipment, and

methods of individual and class exercise. Advanced construction in both hard and soft woods will be available for advanced students. Laboratory fee: \$2.50.

3. HAND-WORK FOR TEACHERS OF BACKWARD AND DEFECTIVE CHILDREN. MR. GAITHER. Public School No. 79. C. 11.30

This course presents for the aid of special teachers manual activities adapted to the needs of backward and mentally defective children. The materials and lessons form a natural sequence, the steps being arranged so as to lead the pupil in an easy manner to a gradual development of muscular control. Conferences and assigned readings.

Laboratory fee: \$1.50.

## MATHEMATICS

1. THEORY OF GROUPS. Associate Professor COBLE. Physical Laboratory. G. 8.30.

This course will deal mainly with finite groups. A definite application, possibly to the theory of equations or to finite geometry, will be made.

(a) Alternate subject: Elliptic Functions.

2. THEORY OF FUNCTIONS OF A REAL VARIABLE. Associate Professor COBLE. Physical Laboratory. G. 10.30

(a) Alternate subject: Projective Geometry.

(Pre-requisites: For 1 and 2, Calculus, and for 1a, a knowledge of at least the elements of the theory of functions of a complex variable.)

3. THE ELEMENTS OF ANALYTIC GEOMETRY AND GRAPHICAL ALGEBRA. Associate Professor COBLE. Physical Laboratory. C. 11.30

This course will cover part of the required work of the first college year.

4. THE ESSENTIALS OF GEOMETRY AND ALGEBRA. Associate Professor COBLE. Physical Laboratory. 12.30

This course will be devoted to a comparative survey of current elementary texts with an evaluation of their content and methods with reference to mathematical science as opposed to logic. It is designed to meet the needs of teachers of these subjects and also of students who want a rapid review.



## MUSIC

The Peabody Conservatory of Music of Baltimore is announcing a summer session of six weeks, July first to August twelfth. Its program includes courses in Rhythmic Gymnastics, Normal and Ensemble Classes, Singing, Piano, Organ, Violin, 'Cello, Composition, and other subjects.

As the buildings of the University and the Conservatory are in close proximity, students desiring instruction in music will find it convenient to arrange their courses in the two institutions.

Circulars containing full particulars will be sent on application to either the University or the Conservatory.

## PHYSICS

1. SPECTROSCOPY. Associate Professor ANDERSON. Physical Laboratory. *G.* 12.30

(a) Alternate: Astrophysics.

2. THEORETICAL MECHANICS. Associate Professor ANDERSON. Physical Laboratory. *G.* 9.30

(a) Alternate: Theory of Sound.

3. ELECTRON THEORY. Associate Professor ANDERSON. Physical Laboratory. *G.* 11.30

4. MECHANICS AND HEAT. Dr. HEWLETT. *C.* 8.30

Lectures and Laboratory.

5. ELECTRICITY AND MAGNETISM. Dr. HEWLETT. *C.* 11.30

Lectures and Laboratory.

6. TEACHERS' COURSE IN PHYSICS. Associate Professor ANDERSON and Dr. HEWLETT. 10.30

An elementary course designed especially for teachers in High Schools. The construction of simple apparatus will be taught in connection with this course.

Laboratory fee: \$4.00, each, for courses 1, 2, and 3.

## PLAYGROUND AND RECREATION

The following courses for the training of leaders in playground and recreation work are offered in coöperation with the Children's Playground Association of Baltimore, Inc. Additional training for this purpose is offered in Manual Training 1.

1. SINGING GAMES AND FOLK DANCES. Miss GROSS. McCoy Hall. 4.30-6.00

The development of traditional singing games for younger children, national folk dances and English country dances suitable for school and recreation purposes.

2. ATHLETIC GAMES AND STANDARDIZED TEAM GAMES. Mr. CLARKE. Gymnasium. 4.30-6.00

Typical games suitable for gymnasium and playground for children from ten to eighteen years.

Tuition fee: For either course alone, \$10.00; for both courses, \$15.00; for either course as a *fourth* course, \$5.00 in addition to the regular tuition. A minimum registration of ten is required for each course. The schedule may be changed.

## POLITICS

1. INTERNATIONAL LAW. Professor LATANÉ. McCoy Hall. G. 8.30

The nature and sanction of international law, the attributes of sovereign states, their rights and duties as members of the family of nations in peace, in war, and in the relation of neutrality.

2. AMERICAN PARTY GOVERNMENT. Assistant Professor MYERS. McCoy Hall. C. 9.30

A study of the history and practice of political parties in the United States from early times to the present day. Lectures and assigned readings.

Text-books: P. O. Ray, "An Introduction to Political Parties and Practical Politics" (Scribner's); S. W. McCall, "The Business of Congress" (Columbia University Press); H. J. Ford, "The Rise and Growth of American Politics" (Macmillan).

## PSYCHOLOGY

1. ADVANCED GENERAL PSYCHOLOGY. Associate Professor DUNLAP. Psychological Laboratory. *G.* 11.30

This course is intended for students who wish to make a critical and intensive study of methods and results in normal human psychology. The work will have especial reference to important theories and modern view-points. Lectures, readings and discussion.

2. EXPERIMENTAL PSYCHOLOGY. Associate Professor DUNLAP. Psychological Laboratory. *G.* 12.30

In this course special attention will be given to methods of re-research and the collation of results in various lines of psychological investigation. Laboratory work and conferences.

3. INTRODUCTION TO GENERAL PSYCHOLOGY. Associate Professor DUNLAP. Psychological Laboratory. *C.* 8.30

This course is intended for those who have had no training in psychology, or who wish to review the elementary work. The essential facts and principles of analytical and functional psychology will be outlined in lectures, with demonstrations, supplemented by assigned reading.

## SPANISH

1. READINGS IN SPANISH. Dr. SOHO. McCoy Hall. *C.* 9.30

Olmsted and Gordon, *Abridged Spanish Grammar*; Pérez Galdós, *Doña Perfecta*; Larra, *Partir á tiempo*. Oral and written exercises. Open to students who have completed the equivalent of Spanish 2.

2. ELEMENTARY SPANISH. Dr. SOHO. McCoy Hall. *C.* 10.30

This course on written and spoken Spanish will include drill on pronunciation, the essentials of grammar, composition and reading. Text-books: Ingraham-Edgren, "Brief Spanish Grammar"; Geddes and Josselyn, "Gil Blas" (Heath & Co.); Morrison, "Tres comedias modernas" (Holt & Co.).

# SCHEDULE

8.30—9.20

Chemistry 2  
Domestic Science-Art 1  
(8.30—10.20)  
Domestic Science-Art 5  
(8.30—11.20)  
Education 1  
Education 7  
Education 11  
English Composition 2  
English Literature 4  
German 2  
German 4  
History 3  
Latin 2  
Manual Training 2  
(8.30—10.20)  
Mathematics 1  
Physics 4  
Politics 1  
Psychology 3

9.30—10.20

Biology 1  
Chemistry 4  
(9.30—12.20)  
Education 2  
English Literature 3  
German 3  
History 5  
Physics 2  
Politics 2  
Spanish 1

9.30—11.20

Education 10  
(Demonstration School)

10.30—11.20

Domestic Science-Art 2  
(10.30—12.20)  
Education 3  
Education 8  
English Composition 1  
French 3  
German 1  
German 5  
History 2  
History 4  
Manual Training 1

Mathematics 2

Physics 6

Spanish 2

11.30—12.20

Chemistry 6  
Education 5  
Education 9  
English Composition 4  
English Literature 1  
French 2  
History 1  
Manual Training 3  
Mathematics 3  
Physics 3  
Physics 5  
Psychology 1

12.30—1.20

Biology 2  
Chemistry 1  
Domestic Science-Art 3  
Education 4  
Education 6  
Education 12  
English Composition 3  
English Literature 2  
French 1  
Latin 1  
Mathematics 4  
Physics 1  
Psychology 2

1.30—2.20

Chemistry 3  
(1.30—4.20)  
Chemistry 5  
Domestic Science-Art 4  
(1.30—4.20)

2.30—4.20

Biological Laboratory  
Chemical Laboratory  
Physical Laboratory  
Psychological Laboratory

4.30—6.00

Playground-Recreation 1  
Playground-Recreation 2

# THE JOHNS HOPKINS UNIVERSITY

BALTIMORE

FOUNDED 1876

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A FACULTY OF 250 PROFESSORS, ASSOCIATES, INSTRUCTORS AND LECTURERS

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MARYLAND GEOLOGICAL SURVEY, MARYLAND WEATHER SERVICE,  
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T. R. BALL, Registrar

THE  
JOHNS HOPKINS  
UNIVERSITY CIRCULAR

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SUMMER COURSES

JULY 5 - AUGUST 15

1916

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BALTIMORE, MARYLAND

PUBLISHED BY THE UNIVERSITY

ISSUED MONTHLY FROM OCTOBER TO JULY

MARCH, 1916

New Series, 1916, No. 3]  
[Whole Number, 283]

Entered, October 21, 1903, at Baltimore, Md., as second class matter, under  
Act of Congress of July 16, 1894



## CALENDAR, 1916

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June 6, Tuesday—Commencement Day.

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July 1, Saturday— } 9 a. m. to 5 p. m., Registration at the office  
July 3, Monday— } of the Registrar, McCoy Hall.

July 4, Tuesday—Independence Day: *University buildings closed.*

July 5, Wednesday—8.30 a. m., Instruction in the Summer Courses begins.

July 15, Saturday—Classes meet as usual.

August 15, Tuesday—Examinations and close of Summer Courses.

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October 3, Tuesday—Forty-first regular session begins.

October 7, Saturday—Opening Assembly, College Courses for Teachers.

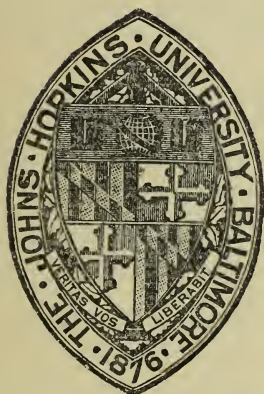
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All work will begin promptly on Wednesday morning, July 5. It is important that students should reach Baltimore in time to be present at the opening exercises in each class.

*Registration should be made prior to July 5.*

# SUMMER COURSES

1916



BALTIMORE  
THE JOHNS HOPKINS PRESS  
1916

THE JOHNS HOPKINS UNIVERSITY  
SUMMER COURSES

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OFFICERS OF ADMINISTRATION

FRANK J. GOODNOW, LL. D.  
*President of the University*

EDWARD F. BUCHNER, PH. D.  
*Director of the Summer Courses*

THOMAS R. BALL,  
*Registrar*

W. GRAHAM BOYCE,  
*Treasurer*

# THE JOHNS HOPKINS UNIVERSITY CIRCULAR

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New Series, 1916, No. 3

MARCH, 1916

Whole Number, 283

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## GENERAL STATEMENT

The sixth year of the Summer Courses of the Johns Hopkins University will open on Wednesday, July 5, and continue until Tuesday, August 15, inclusive. Exercises in each subject will be held every week-day, Monday to Friday. In addition, on *Saturday, July 15, classes will meet as usual.* Each course will consist of thirty class exercises or their equivalent. In the sciences laboratory work will be additional. Examinations will be held at the close of the courses.

As the summer courses are authorized by the Trustees, and their credits fixed by the various Boards of study, they are an integral part of the work of the University. All the resources of the institution essential to their conduct are placed at the disposal of the students. These resources include the use not only of the academic buildings, but also of the general and departmental libraries, laboratories, and gymnasium.

The principal object of the University in making provision for the summer work is to furnish instruction to teachers in all grades of schools, and to other persons who seek opportunities for instruction, with or without reference to an academic degree. Some courses offered are designed to meet the needs of graduate and collegiate students who wish to advance their standing or to make up deficiencies; others, to enable non-matriculated students to absolve in part the

entrance requirements. Also, courses in some subjects not given in the regular session are offered to meet special needs of schools.

#### CHARACTER OF INSTRUCTION

The courses maintain the standard of instruction which characterizes the work of the regular session in the subjects representing graduate and collegiate departments, as well as in those introduced to meet the special needs of teachers. In addition to the regular class exercises, instructors hold daily conferences, in which the work of the courses is supplemented and adapted to the particular needs of individuals.

#### DEMONSTRATION AND OBSERVATION SCHOOLS

There will be conducted at the University during the session an elementary school of seven grades, designed primarily to demonstrate typical means and material for more effective teaching in rural schools.

It is expected that graded vacation schools, including a vocational school, will be in operation in the city and available for observation in connection with some of the work in the courses in education.

Opportunity will thus be afforded superintendents, principals, supervisors and teachers to consider concretely many problems in elementary instruction.

#### ACADEMIC CREDIT

Graduate courses, leading to the degree of Master of Arts, will be credited by the respective departments in accordance with the rule of the Board of University Studies: the requirement of one of the two-years residence for this degree may be met by attendance and study in three sessions of the Summer Courses. These courses are designated by *G*.

Students matriculated in the University will receive credit for the satisfactory completion of those courses designated by

C. In general the same credit is given per hour as in the regular college courses, *e. g.*, a lecture course of thirty hours has a credit of two "points," or one-third of the credit for a course of three hours per week through the college year. Provided, however, the student follows but two courses, an additional credit may be given. The exact amount of additional credit in each course is determined by the instructor according to the work accomplished, subject to the approval of the Director, but in no case will an additional credit to exceed fifty per cent. be given, nor can a total credit of more than eight points be allowed a student in one summer session.

Students not matriculated in the University will receive certificates indicating the amount of work satisfactorily performed. These certificates will indicate the value of the work done in each course, and in most instances will be accepted by State, County, and City Superintendents and Boards of Examiners in the extension or renewal of teachers' certificates, according to law.

#### ADMISSION AND ATTENDANCE

There are no formal examinations for admission. Students, both men and women, will be admitted to such courses as they are found qualified by the respective instructors to pursue with advantage.

The session will open promptly on July 5, carrying out the schedule provided on page 3 of cover. Students are advised to register in advance of the opening.

The Registrar's office (McCoy Hall, first floor) will be open for registration of students on Saturday, July 1, Monday, July 3, and Wednesday, July 5, from 9 a. m. to 5 p. m. Students should register without delay. After July 11, admission to each course will be restricted to registered students. After July 13 no change of courses will be allowed.

All fees, including both tuition and special laboratory fees, must be paid to the Treasurer immediately upon registration.



## LOCATION

The University buildings are situated on Monument street and Druid Hill avenue, between Howard and Eutaw streets.

By courtesy of the Baltimore Board of School Commissioners, the instruction in Domestic Science and Art and in Manual Training will be given in Public School No. 79, Park avenue and Hoffman street.

## EXPENSES

The tuition fee is \$25.00, payment of which entitles the student to attend as many as three courses. (Under very exceptional circumstances, a student may register in one course only. The tuition fee in such cases will be \$15.00.) The fee for the Playground and Recreation course, if taken alone, or in addition to the maximum of three courses in other subjects, is stated on page 23. The fee for the use of the gymnasium, including towel service, or for the use of the tennis courts at Homewood, is \$2.00; for both, \$3.00.

Additional fees are required for materials used in some of the courses. (For details, see statement of courses.) No reduction of fees will be allowed for late entrance; nor for withdrawal, except on account of illness.

Checks will be received in payment of fees when drawn for the exact amount to the order of the Johns Hopkins University. For the convenience of students while in residence at the University, the Treasurer will receive out-of-town checks and drafts for payment upon collection. There is no charge for this service other than the exchange.

## BOARD AND LODGING

The University has no dormitories. Comfortable furnished rooms in private homes in the vicinity of the University are offered for rent at prices ranging from \$1.50 to

\$3.00 per week for a single room, and \$3.00 to \$7.00 a week for a suite of rooms. Board can be had in private boarding-houses or in public restaurants at prices ranging from \$3.50 to \$5.00 per week. A printed list of boarding and lodging houses will be sent upon request.

#### LECTURES AND RECITALS

In addition to the social opportunities afforded by the opening and closing receptions, students are invited to the lectures and recitals which will be given every Wednesday afternoon and Friday evening, in co-operation with the Summer Session of the Peabody Conservatory of Music.

#### EXCURSIONS

Saturday excursions will be made to Annapolis, the State capital, and Washington, D. C., both within an hour's ride by trolley, and to points of interest in and about Baltimore.

#### UNIVERSITY POST-OFFICE

The University post-office, in McCoy Hall, will be open. Students may have their mail addressed in care of the Johns Hopkins University.

#### SUMMER COURSES FOR GRADUATES IN MEDICINE

Beginning June 1st and extending for six weeks, the Medical School of the Johns Hopkins University, in co-operation with the Johns Hopkins Hospital, offers to graduates in medicine courses in Medicine, Surgery, and the various specialties. The special circular describing these courses and any other information concerning them may be obtained by addressing the Dean of the Johns Hopkins Medical School, Washington and Monument Sts. The fees vary from \$25. to \$125. according to the number and character of the courses taken.

## INSTRUCTORS

- JOSEPH S. AMES, PH. D. *Physics*  
Professor of Physics.
- EDNA I. AVERY, A. M. *Domestic Art*  
Instructor in Home Economics, New York State College for Teachers.
- BIRD T. BALDWIN, PH. D. *Educational Psychology*  
Professor of Psychology and Education, Swarthmore College.
- ANNA BROCHHAUSEN, A. B. *Elementary Education*  
Supervising Principal, Indianapolis Public Schools.
- EDWARD F. BUCHNER, PH. D. *Director*  
Professor of Education.
- ARTHUR B. COBLE, PH. D. *Mathematics*  
Associate Professor of Mathematics.
- CLARENCE G. COOPER, S. B. *Elementary and Rural Education*  
Supervisor of Rural Schools, Baltimore County, Maryland.
- ROBERT T. CRANE, PH. D. *Politics and History*  
Assistant Professor of Political Science, University of Michigan.
- KNIGHT DUNLAP, PH. D. *Psychology*  
Associate Professor of Psychology.
- HOWARD E. ENDERS, PH. D. *Biology*  
Associate Professor of Zoology and Head of General Biology, Purdue University.
- GEORGE M. GAITHER *Manual Training*  
Instructor, Baltimore Polytechnic Institute, and Supervisor of Manual Training Centres, Baltimore Public Schools.
- ROBERT M. GAY, A. M. *English*  
Professor of English, Goucher College.
- J. ELLIOTT GILPIN, PH. D. *Chemistry*  
Collegiate Professor of Chemistry.
- GRETA GRAY, A. M. *Domestic Science*  
Instructor in Household Science, University of Illinois.
- MARY E. GROSS, A. M. *Playground and Recreation*  
Assistant to Field Secretary, Children's Playground Association, Baltimore.
- GUSTAV GRUENBAUM, PH. D. *French*  
Formerly Instructor in Romance Languages.

- WILLIAM J. HOLLOWAY, A. M. *Elementary Education*  
Superintendent of Schools, Wicomico County, Maryland.
- ALFRED A. KERN, PH. D. *English*  
Professor of English, Millsaps College.
- EDITH A. LATHROP, A. B. *Rural Education*  
Assistant Superintendent of Public Instruction, Nebraska.
- ABBY P. LELAND, PH. D. *Elementary Education*  
Elementary Principal, New York City Public Schools.
- HERBERT C. LIPSCOMB, PH. D. *Latin and History*  
Professor of Latin, Randolph-Macon Woman's College.
- BENJAMIN F. LOVELACE, PH. D. *Chemistry*  
Associate Professor of Chemistry.
- WM. STARR MYERS, PH. D. *History*  
Assistant Professor of History and Politics, Princeton University.
- A. HERMAN PFUND, PH. D. *Physics*  
Associate Professor of Physics.
- ROBERT B. ROULSTON, PH. D. *German*  
Associate in German.
- WILLARD S. SMALL, PH. D. *Secondary Education*  
Principal of Eastern High School, Washington, D. C.
- FREDERICK C. TARR, A. B. *Spanish*  
Instructor in Spanish, Mt. St. Agnes' College.
- DAVID G. THOMPSON, A. M. *Geography*  
Instructor in Geology, Goucher College.
- NATHANIEL R. WHITNEY, PH. D. *Economics*  
Instructor in Political Economy.
- WILLIS H. WILCOX, PH. M. *English*  
Head of Department of English, Maryland State Normal School.
- HENRY WOOD, PH. D. *German*  
Professor of German.
-

## COURSES OF INSTRUCTION

## BIOLOGY

## 1. BOTANY. Associate Professor ENDERS. C. 9.30

The main part of the laboratory work will be the study of the life histories and structure of a liverwort, a fern, and a seed plant, supplemented by less detailed work upon a few other forms such as an alga, chara, and a moss. There will also be occasional field excursions for the purpose of collecting and identifying about fifty plants representing the main divisions of the plant kingdom. The lectures will deal with the more essential facts of the morphology and physiology of plants.

## 2. ZOOLOGY. Associate Professor ENDERS. C. 12.30

The laboratory work of this course consists of a rather intensive study of such representative animals as amoeba, hydra, an earthworm, a crayfish and a frog. The behavior of these animals as well as their structure will be studied. In addition to this work there will be occasional field excursions to streams, forests, and open fields, for the purpose of becoming better acquainted with the habitats of animals. The lectures will supplement, for the most part, the work in the laboratory, but a few lectures will be devoted to the more general problems of zoological science.

Laboratory fee: \$1.00 for one, or both courses.

## CHEMISTRY

## 1. ORGANIC CHEMISTRY. Professor GILPIN. G. 12.30

This course is intended for those who have had a thorough training in inorganic chemistry and will be suited to the needs of graduate students and those who wish to prepare for entrance to the Medical School.

Texts: Remsen, *Organic Chemistry* (Heath); Norris, *Organic Chemistry* (McGraw Hill Book Co.).

2. ADVANCED INORGANIC CHEMISTRY. Associate Professor LOVE-  
LACE. G. 9.30

A course of lectures for advanced students.

3. INORGANIC REACTIONS AND INORGANIC PREPARATIONS. Associ-  
ate Professor LOVELACE. G. 10.30-1.20

A laboratory course.

4. QUANTITATIVE ANALYSIS. Associate Professor LOVELACE.  
G. 10.30-1.20

A laboratory course.

5. HOUSEHOLD AND TEXTILE CHEMISTRY. Professor GILPIN.  
C. 1.30

This course is intended for those who have taken elementary courses in chemistry, domestic art and science. In addition to a discussion of the general principles of organic chemistry, such subjects as fuels, combustion, oxidation, water (its purification and analysis), food principles, preparation and testing of foods, soaps, chemical nature of fabrics, principles of dyeing, cleansing agents, etc., will be presented.

In the laboratory the work will follow the line of household or textile chemistry, as the student may select.

6. INTRODUCTION TO GENERAL CHEMISTRY. Professor GILPIN.  
C. 11.30

No previous knowledge of chemistry is required for this course. It will include, as far as possible in the time allowed, a study of the more important non-metallic and metallic elements and their properties. Remsen's *Chemistry* (Briefer Course) will be used as a basis for the class-room and laboratory work.

Laboratory fees: \$5.00 for one course, or for morning or afternoon work; \$8.00 for two courses or for work all day. (The fee for materials does not include the cost of small pieces of apparatus not returnable, and the charge for breakage to be paid at the close of the session. This additional expense averages about \$2.00.)

## DOMESTIC ART

1. TEXTILES AND CLOTHING. Miss AVERY. P. S. No. 79. C.  
8.30-11.20

This course offers technical practice in the construction of shirt waist suits, simple costumes, and blouses, with the following related subjects: (a) dress finishes and hand ornamentation; (b) design in the selection of material, style, and color; (c) fabrics in regard to their structure, properties, adulteration, and wear. Students provide material subject to approval of instructor; cost determined individually.

Pre-requisite: Course 2, or its equivalent. Parallel: Chemistry 5.  
Laboratory fee: \$2.50.

2. ELEMENTARY CLOTHING. Miss AVERY. P. S. No. 79. C.  
1.30-4.20

A study of the stitches and principles underlying elementary garment construction. The emphasis is placed upon machine and hand work, drafting, alteration, and use of patterns. Simple garment making. Students provide material approved by instructor; approximate cost, \$5.00.

Laboratory fee: \$2.00.



## DOMESTIC SCIENCE

1. ADVANCED COOKERY. Miss GRAY. P. S. No. 79. C. 10.30-12.20

In this course the aim is to apply the knowledge of cooking principles gained in elementary cookery, and to add to it an understanding of the economic and nutritional questions involved in the selection, preparation, and serving of food.

The preservation of foods of all types, the food value of foods, and the planning, cooking and serving of different priced dietaries for children, adults, and invalids will be studied in recitation and laboratory.

Pre-requisite: Course 2, or its equivalent. Parallel: Chemistry 5.  
Laboratory fee: \$5.00.

2. ELEMENTARY COOKERY. Miss GRAY. P. S. No. 79. C. 8.30-10.20

The aim of this course is to give an understanding of the principles underlying and involved in the cooking and preserving of protein, fat, and carbohydrate foods, so that the student will be, to a large extent, independent of cook books, and able to understand, criticize, and vary recipes.

The course will deal with food preparation based on a knowledge of the composition of foods, and the changes produced by micro-organisms, heat and moisture. The equipment of the home kitchen will be studied.

Pre-requisite or Parallel: Chemistry 6.  
Laboratory fee: \$5.00.

3. METHODS OF TEACHING DOMESTIC SCIENCE. Miss GRAY. P. S. No. 79. C. 12.30.

The aim of this course is to enable the teacher to make a wise selection of subject matter for her own classes, and to give practice in lesson planning and teaching.

The course will include study of the different types of institutions in which cookery is taught; the aims and needs of these, and the adaptation of courses of studies to them; correlation of Domestic Science with other branches; equipment; lesson planning, and methods of presentation.

Laboratory fee: \$2.00.

## ECONOMICS

1. THE MONEY MARKET AND THE EUROPEAN WAR. Dr. WHITNEY. G. 8.30

Designed for those who have had preliminary work in political economy or who have some familiarity with the principles of banking and finance.

The course will include a discussion of monetary laws, an analysis of the banking systems in the chief money markets of the world, a study of the principles of foreign exchange, and an examination of the effects of the war on the international exchanges as marked by the accumulations of gold, the changes in the rate of exchange, the selling of securities, and the issuing of paper money.

2. SOCIAL REFORMS. Dr. WHITNEY. C. 10.30

A study will be made of the economic and social aspects of such proposals as socialism, land nationalization, profit sharing, pension systems, child labor and minimum wage legislation.

3. PUBLIC FINANCE. Dr. WHITNEY. C. 12.30

The principles governing public revenue and public expenditure will be considered and the various kinds of taxes employed will be critically analyzed.

## EDUCATION

1. THE ADMINISTRATION OF SECONDARY EDUCATION. Dr. SMALL.  
G. 8.30

This course will consider two increasingly important groups of administrative problems incident to the socialization of education: the extra-classroom school activities such as athletics, military training, debating, dramatics, journalism, clubs, fraternities, student guidance, and student participation in government; and the social and community uses of the high school plant and organization. The course will be of interest to school administrators and teachers and also to social workers. Lectures, readings and reports.

Text: Johnston, *The Modern High School* (Scribner's).

2. EXPERIMENTAL EDUCATION. Professor BALDWIN. G. 9.30

This course deals with psycho-educational processes in action from the scientific point of view, and is based upon a comparative study of investigations in educational research. Emphasis will be placed on methods of approaching educational problems and the application and evaluation of measuring scales and mental tests with particular reference to adolescence.

Lectures, demonstrations, experiments and special reports.

3. SECONDARY SCHOOL TEACHING. Dr. SMALL. G. and C. 10.30

In this course consideration will be given to recent tendencies in the development of the high school program of studies, the organization of courses of study, changing emphasis in methods, standards of teaching and measurement of results. Lectures, reports and demonstrations.

4. EDUCATIONAL PSYCHOLOGY. Professor BALDWIN. G and C.  
12.30

This course aims to present from a modern experimental point of view the psychological data and principles underlying educational

theory and practice, with particular reference to the learning process and modes of behavior. The scope of the course includes a general survey of individual differences in mental traits of childhood and adolescence. Texts, lectures, demonstrations, experiments, reports.

5. THE ELEMENTARY SCHOOL: GRAMMAR GRADES. Dr. LELAND.  
C. 11.30

This course will present the theory and practice of teaching the various subjects in the last four years of the elementary school. The point of view resulting from the extension into elementary education of Froebelian principles and such concepts as motivation judgment, initiative, responsibility and participation in social life appropriate to children will underlie the work. The selection of subject matter, the method of instruction, and the management of children will receive attention.

Lectures, required reading, and discussion, based so far as possible upon observation of lessons.

6. THE ELEMENTARY SCHOOL: PRIMARY GRADES. Miss BROCHHAUSEN. C. 12.30

By means of lectures and discussions this course will consider the problems peculiar to the first four years of the elementary school. The subject matter for each grade will be outlined, and effective methods for presenting the material will be given. Outside reading and written reports will be required.

Text: Strayer, *A Brief Course in the Teaching Process* (Macmillan).

7. THE TEACHING OF ENGLISH IN THE ELEMENTARY SCHOOL.  
Miss BROCHHAUSEN. C. 8.30

This course of lectures, reports, and discussions will be devoted to the teaching of English in the eight grades of the elementary school. Special emphasis will be placed upon the teaching of oral and written composition, the correlation between composition and literature, and the relation of spelling and grammar to composition. It will be shown how composition can be kept interesting and made vital to children. Outside reading will be required.

8. THE TEACHING OF ARITHMETIC AND HISTORY IN THE ELEMENTARY SCHOOL. Dr. LELAND. C. 10.30

The first part of the course treats of the recent developments in the material and methods of teaching arithmetic in the eight grades of the elementary school. The fundamental processes, drill, the topics involving the application of the subject in modern business, the selection and grading of applied problems, and the proper balance of abstract and concrete work will receive attention. Consideration will also be given to the psychological investigations and tests relating to the teaching of arithmetic.

The aims, materials, and methods of teaching history in the elementary school will receive attention in the second part of the course. The practical work consists of exercises in the selection and arrangement of materials in a course in history, the preparation of lesson plans, and so far as possible the observation and criticism of teaching exercises.

Lectures, required reading, lesson plans, and reports on observation.

9. SUPERVISION OF RURAL SCHOOLS. Mr. COOPER. C. 9.30

The aim of this course is to study the technical work of this field of supervision in light of the larger problems of the place and meaning of the rural school. The chief topics will be the present status of rural education in the United States, the newer rural economic and social problems in relation to the specific work of the supervisor both in the school and in the community, the course of study, aims and methods of school visitation including the principles of criticism of teaching, the training of teachers in service, and some of the practical problems of the supervisor. Lectures, required readings and special reports.

10. RURAL SCHOOL: METHODS COURSE. Miss LATHROP. C. 11.30

In this course an opportunity will be given for a discussion of the principles illustrated in Course 11, the demonstration school. Special emphasis will be placed upon the program, daily preparation of the teacher, the keeping of a plan book, seat work, the recreation period and the possibilities of vocational subjects in the rural school. In addition attention will be given to school buildings, rural hygiene, and consolidation. Library readings and reports will be required.

11. A DEMONSTRATION SCHOOL: OBSERVATION COURSE. Miss LATHROP. C. 9.30-11.20

The purpose of this course will be to illustrate by the laboratory method the organization of a one-teacher school where seven grades are represented. It will be shown how by alternation, combination and elimination the number of classes can be reduced to the least possible number. The course of study for Maryland will be the basis upon which the program will be built. Attention will be given to seat work, the recreation period and the vitalization of the rural school.

(If taken alone, the tuition fee for Course 11 is \$25.00.)

12. THE PRINCIPLES OF ELEMENTARY TEACHING. Mr. COOPER. 11.30

This course will study the principles of teaching in their application to the state elementary course of study, including special methods in teaching the various subjects throughout the grades. Review of subject matter will be made wherever necessary. The course will be based on the Maryland Teachers' Manual and Course of Study (issued in 1914), and is especially designed, in connection with Course 13, to meet the new legal requirement of persons wishing to secure the minimum preparation for teaching.



13. SCHOOL MANAGEMENT AND SCHOOL LAW. Supt. HOLLOWAY.  
12.30

In close connection with Course 12, the problems of the organization of a school, program making, class and pupil management, text-books, supplies and apparatus, care and supervision of school property, the legal duties of teachers, trustees and school boards, as officers of the state, contracts, records and reports will be studied so as to meet the needs of persons wishing to secure the minimum preparation for teaching. The work will be based on the Maryland School Law and Elementary Course of Study.

## ENGLISH COMPOSITION

1. DESCRIPTION AND NARRATION. Professor GAY. C. 10.30

Description and narration will be studied, especially as exemplified in the sketch, the tale, the short story, and the one-act play. Constant practice will be afforded in writing, and themes will be criticised in the class room (anonymously) and in private conference.

Text: Maxcy, *Representative Narratives* (Houghton Mifflin Co.).

2. THEME-WRITING. Professor GAY. C. 8.30

The special work of this class will be the theory and practice of exposition. The other forms of discourse will be discussed briefly, and the prose writings of selected authors will be studied as models. Constant drill in writing will be provided for, and the essays will be criticised in the class room (anonymously) and in private conference. The work is of the same grade as that of the usual college freshman course.

Text: Lomer and Ashmun, *The Study and Practice of Writing English* (Houghton Mifflin Co.).

3. ELEMENTS OF ENGLISH COMPOSITION. Mr. WILCOX. 10.30

This course is planned for teachers and others who feel the need of more training in the fundamental principles of composition. The work will include a study of the theory of sentence structure. Effort will be made to develop ability in the use of words and sentences by means of regular practice. Written work will be required throughout the course, accompanied by class criticism and personal conferences.

Text: Wilcox, *Daily English Lessons* (Lippincott).

4. ENGLISH GRAMMAR. Mr. WILCOX. 9.30

In this study and review of the essentials of English Grammar, stress will be laid on the meaning and value of the subject for both correctness in expression and correctness and ease in interpretation. Attention will be given to the new grammatical nomenclature. The course is intended for those who are teaching, or are preparing to teach, the subject.

## ENGLISH LITERATURE

## 1. TENNYSON: IDYLLS OF THE KING. Professor KERN. G. 9.30

The *Idylls* will be studied from the standpoint of their sources, their unity, and their meaning.

Texts: Tennyson, *Poems* (Cambridge, or Globe edition); Malory, *Morte D'Arthur* (Globe edition).

## 2. SHAKESPEARE: TRAGEDIES. Professor KERN. G. 12.30

A course in the substance and construction of Shakespearean tragedy, based upon a detailed study of *Hamlet*, *Othello*, *King Lear*, and *Macbeth*. Other tragedies will be read as parallel reading.

## 3. HISTORY OF THE ENGLISH LANGUAGE. Professor KERN. G. 8.30.

A course in the English language from its beginning to the present time. Some study will be made of words and their use in modern English. This course will presuppose an elementary knowledge of Anglo-Saxon.

## 4. THE HISTORY OF ENGLISH LITERATURE, 1600-1775. Professor GAY. C. 11.30

A survey of the literature of the periods spanned by the lives of Milton, Dryden, Pope, and Johnson. The following subjects will be considered, the authors named being studied as representative: Jacobean Prose and Poetry (Milton, Donne, Bunyan, and Browne); the Caroline Lyric (Herrick); Restoration Drama (Dryden and Congreve); Augustan Prose (Addison, Steele, Swift, DeFoe, Johnson, and Goldsmith); the Augustan Novel (Richardson and Fielding); and Augustan Verse (Pope).

Text: Cunliffe, Pyre, and Young, *Century Readings in English Literature* (The Century Co.).

## FRENCH

## 1. THE FRENCH THEATER IN THE SEVENTEENTH CENTURY. Dr. GRUENBAUM. C. 12.30

This course is intended for students who have considerable facility in reading modern French. The lectures will deal with the language of the seventeenth century, and with the life and works of the chief representatives of the classical theater.

Text: Corneille, *Le Cid*, ed. Searles (Ginn); Corneille, *Horace*, ed. Matzke (Heath); Racine, *Phèdre*, ed. Babbitt (Heath); Racine, *Athalie*, ed. Warren (Holt); Molière, *Les Femmes Savantes*, ed. Brush (Macmillan); Molière, *Le Misanthrope*, ed. Braunholz (Cambridge University Press).



## 2. READINGS IN FRENCH. Dr. GRUENBAUM. C. 11.30

This course is intended for students who have the equivalent of Course 3, in whole or in part. Work in composition will accompany the reading of texts.

Text: Augier, *Un Beau Mariage*, ed. Symington (Holt); Theuriet, *L'Abbé Daniel*, ed. Taylor (Holt); Maupassant, *Short Stories*, ed. Brush (Holt); Koren's *French Composition* (Holt).

## 3. ELEMENTARY FRENCH. Dr. GRUENBAUM. C. 10.30

The work will consist in a study of the essentials of grammar, drill on pronunciation, practice in writing, and careful reading of easy prose.

Texts: Olmsted's *Elementary French Grammar* (Holt); Malot, *Sans Famille*, ed. Spiers (Heath); Labiche, *La Grammaire*, ed. Levi (Heath).

NOTE.—Satisfactory completion of this course will be counted as partial fulfilment of the entrance requirements in French.

## GEOGRAPHY

## PHYSICAL AND ECONOMIC GEOGRAPHY. Mr. THOMPSON. C. 9.30

The first part of this course will be devoted to physical geography, taking up the origin and modification of land forms, climate, and weather. Following this will be considered the influence of the natural environment (topography, soils, climate, flora, and fauna) on the life of man, and in the development of civilization and of trade. The influence of geographic factors in history (including the Great War) will be discussed. In the latter part of the course the physical features, resources, industries, and commercial relations of the United States will be studied. Laboratory work will include the study of maps, rocks, and minerals. Several field trips will be taken to study the physiographic features of the Baltimore region.

## GERMAN

## 1: SWABIAN AND AUSTRIAN POETS IN THE FIRST HALF OF THE NINETEENTH CENTURY. Professor WOOD. G. 10.30

The period from Uhland to Mörike will be considered in its chief representatives. Particular attention will be given to the relation of the Swabians to Young Germany and to Heine. Among the Austrian poets, Grillparzer, Lenau and Anastasius Grün will be specially studied.

## 2. TWO EPOCHS OF REFORM IN GERMAN LANGUAGE AND STYLE. Professor WOOD. G. 8.30.

- (a) The period of the *Sprachgesellschaften*, and of Purism in German style (XVII Century).

- (b) The contest between the Swiss-German and Leipzig literary schools, and the resulting triumph of naturalism in German style (XVIII Century).

Students are requested to procure Wilhelm Wackernagel's *Geschichte der deutschen Literatur*. Zweite Auflage. Band II. Basel, 1894.

3. ADVANCED GERMAN. Dr. ROULSTON. G. and C. 9.30.

This course will presuppose considerable facility in reading German. The works of Heinrich von Kleist will form the basis of study. Students are requested to procure Kleist's *Werke*, ed. Schmidt (Meyers Klassiker-Ausgaben, M. 10.00).

4. READINGS IN GERMAN. Dr. ROULSTON. C. 8.30.

Intended for those who already have some knowledge of the language. Special attention will be paid to the acquisition of a reading vocabulary.

Texts: *Schwarzwaldleut'*, ed. Roedder (Holt); Eichendorff, *Aus dem Leben eines Taugenichts*, ed. Osthaus (Heath); Keller, *Romeo und Julia auf dem Dorfe*, ed. Corwin (Holt).

5. ELEMENTARY GERMAN. Dr. ROULSTON. C. 10.30.

In this course emphasis will be laid primarily upon the grammar of the language. It will meet the needs of those beginning the language and of such as desire a thorough review in the grammar.

Texts: Vos, *Essentials of German*, 4th edition, 1914. (Holt).

NOTE.—Satisfactory completion of this course will be counted as partial fulfillment of the entrance requirements in German.

## HISTORY

1. PAN-AMERICAN RELATIONS. Assistant Professor CRANE. G. 11.30

A study of Pan-Americanism from an historical and diplomatic point of view. After a preliminary survey of the colonial systems established in America and of their termination in large part by revolutions, attention will be directed to the growth of the Pan-American idea, the Monroe, Calvo and Drago doctrines, and the special problems of international law and policy which affect the relations of the United States and other American republics.

2. AMERICAN HISTORY, 1848-1877. Assistant Professor MYERS. G. and C. 9.30

Special attention will be given to Secession, Civil War, and Reconstruction, including a consideration of the constitutional, political and economic questions involved. A study of the sources as well as of the standard authorities will be required.

3. AMERICAN HISTORY TO 1783. Assistant Professor MYERS.  
C. 8.30

The age of discoveries, the period of colonization and the struggles of European nations for dominion in North America, the development of English colonies, the Revolution and independence and the evolution of self-government.

Texts: Becker, *Beginnings of American People* (Houghton Mifflin Co.); Beer, *British Colonial Policy 1754-1765* (Macmillan); Lecky, *American Revolution*, ed. Woodburn (Appleton).

4. EUROPEAN HISTORY SINCE 1815. Assistant Professor MYERS.  
C. 10.30

After a brief treatment of the reconstruction of Europe after the fall of Napoleon, special attention will be given to the development of Italian and German unity, political and economic reform in England, the movements leading to the present alignment of the powers, and the causes of the recent and present wars.

Texts: Hazen, *Europe since 1815* (Holt); Headlam, *Bismarck* (Putnam); Cesaresco, *Cavour* (Macmillan).

5. GREEK HISTORY. Professor LIPSCOMB. C. 9.30.

This course is designed to give a general survey of Greek history from the beginning to the conquests of Alexander. Stress will be laid upon the development of the Greek city-state and upon the continuity of Greek civilization.

Texts: Bury, *Students' History of Greece* (Macmillan); Thallon, *Readings in Greek History* (Ginn); McKinley's *Illustrated Topics for Ancient History* will also be used.

## LATIN

1. LIVY: BOOKS XXI-XXII. Professor LIPSCOMB. C. 12.30.

A study of the Hannibalic War. This course will cover the equivalent of the first half-year in college Latin I.

Text: Westcott, *Livy, Books I, XXI, XXII* (Allyn and Bacon).

2. VIRGIL: AENEID I-VI. Professor LIPSCOMB. 8.30.

It is the aim of this course to give the student some appreciation of the literary and historical value of the *Aeneid*. The work will cover the fourth year of high school Latin.

Text: Knapp, *Virgil, Aeneid I-VI* (Scott, Foresman & Co.).

## MANUAL TRAINING

1. BENCH WORK IN WOOD AND MECHANICAL DRAWING. Mr. GAITHER. P. S. No. 79. C. 8.30-10.20

This course includes the theory and practice of teaching the use of tools and bench work in wood in the upper elementary and lower

secondary grades, the use of drawing instruments and making simple working drawings, outlining courses, planning equipment and methods of individual and class exercise. Advanced construction in both hard and soft woods will be available for advanced students.

Laboratory fee: \$3.00.

2. **ELEMENTARY MANUAL TRAINING.** Mr. GAITHER. P. S. No. 79. *C.* 10.30

This course includes hand-work processes in paper, cardboard, weaving, raffia, basketry, bookbinding and woodwork suitable for the first six years of the elementary schools, and in materials suitable for rural schools. Outlining courses, planning equipment, and study of methods will be considered.

Those desiring training as playground and recreation leaders will find this course adapted to their needs.

Laboratory fee: \$2.00.

3. **HAND-WORK FOR TEACHERS OF BACKWARD AND DEFECTIVE CHILDREN.** Mr. GAITHER. P. S. No. 79. *C.* 11.30

This course presents for the aid of special teachers manual activities adapted to the needs of backward and mentally defective children. The materials and lessons form a natural sequence, the steps being so arranged as to lead the pupil in an easy manner to a gradual development of muscular control. Conferences and assigned readings.

Laboratory fee: \$2.00.

## MATHEMATICS

1. **HIGHER ALGEBRA.** Associate Professor COBLE. *G.* 8.30

Some of the important developments with their geometric applications will be considered as a basis for further work.

2. **THEORY OF FUNCTIONS.** Associate Professor COBLE. *G.* 10.30

In this course some of the methods and functions of applied mathematics will be studied.

The work in Courses 1 and 2 will be conducted by means of informal lectures, conferences and reports, and will be adapted to individual needs.

3. **ANALYTIC GEOMETRY.** Associate Professor COBLE. *C.* 11.30

This course includes part of the work of the first college year.

4. **TEACHERS' COURSE IN SECONDARY MATHEMATICS.** Associate Professor COBLE. *C.* 12.30

The broader aspects of algebra and geometry which are of particular importance to teachers will be presented. Required reading and special reports.

## MUSIC

The Peabody Conservatory of Music of Baltimore is announcing its summer session of six weeks, July third to August twelfth. Its program includes courses in Rhythmic Gymnastics, Normal and Ensemble Classes, Singing, Piano, Organ, Violin, 'Cello, Composition, History of Music, the Appreciation of Music, Harmony, and Form and Analysis.

Under a new arrangement, candidates for the degree of Bachelor of Science may offer for credit two courses in music, one including the History of Music and the Appreciation of Music, the other including Harmony and Form and Analysis, when officially reported by the Conservatory as having been satisfactorily completed.

As the buildings of the University and the Conservatory are in close proximity, students desiring instruction in music will find it convenient to arrange their courses in the two institutions.

Circulars containing full particulars will be sent on application to either the University or the Conservatory.

## PHYSICS

1. SELECTED TOPICS IN THE MATHEMATICAL THEORY OF ELECTRICITY. Professor AMES. G. 9.30
2. RADIOACTIVITY. Professor AMES. G. 11.30  
(a) Alternate. X-Rays and X-Ray Spectra.
3. WAVE-MOTIONS: SOUND AND LIGHT. Associate Professor PFUND. C. 8.30  
Lectures and laboratory instruction.
4. ELECTRICITY AND MAGNETISM. Associate Professor PFUND. C. 12.30  
Lectures and laboratory instruction.
5. TEACHERS' COURSE IN GENERAL PHYSICS. Professor AMES and Associate Professor PFUND. C. 10.30

A course designed especially for teachers in high schools. Manipulation of simple apparatus for demonstration purposes will be taught; the use of the lantern will be explained; and, if there is a demand for instruction in photography, this will be given.



## PLAYGROUND AND RECREATION

SINGING GAMES, FOLK DANCES, AND ATHLETIC GAMES. Miss  
GROSS. 4.30-5.45

This course for the training of leaders in playground and recreation work is offered in coöperation with the Children's Playground Association of Baltimore, Inc. It includes the theory and practice of singing games and athletics, a study of their place in an educational program, the development of the game and dance for use in the primary and grammar grades, and for recreational purposes in general.

Tuition fee: If taken alone, \$10.00; if taken as a *fourth* course, \$5.00 in addition to the regular tuition. A minimum registration of ten is required.

(See Manual Training 2.)

## POLITICS

1. INTERNATIONAL LAW. Assistant Professor CRANE. *G.* 9.30

After a review of the elements of international law, the notable questions arising from the present war in Europe will be considered with particular reference to the rights and duties of neutrals.

2. MUNICIPAL GOVERNMENT. Assistant Professor CRANE. *C.* 8.30

A study of the social, political and legal character of the city; history of the development of municipal government from a comparative standpoint; its legal powers and responsibilities; municipal home-rule; its organization: council, mayor, commission, and manager types.

## PSYCHOLOGY

1. EXPERIMENTAL PSYCHOLOGY. Associate Professor DUNLAP. *G.*

Opportunity for experimental work in the laboratory will be offered to persons who are prepared to carry on independent minor investigation.

2. THE AFFECTIVE PROCESSES. Associate Professor DUNLAP.  
*G.* 11.30

A study of the feelings and emotions, and of their expressions, conditions, and effects on mental processes. Especial attention will be given to the methods, apparatus and technique of investigation in this field.

Pre-requisite: Course 3, or its equivalent.



3. INTRODUCTION TO GENERAL PSYCHOLOGY. Associate Professor  
DUNLAP. C. 8.30

This course is intended for those who have had no training in psychology, or who wish to review the elementary work. The essential facts and principles of analytical and functional psychology will be outlined in lectures, with demonstrations, supplemented by assigned reading.

## SPANISH

1. READINGS IN SPANISH. Mr. TARR. C. 9.30

Prose composition and reading; practice in oral Spanish. Open to those who have absolved Spanish 2 or its equivalent.

Texts: Crawford, *Spanish Prose Composition* (Holt); Morrison, *Tres comedias modernas* (Holt); Alarcón, *El Capitán Veneno* (Heath).

2. ELEMENTARY SPANISH. Mr. TARR. C. 10.30

This course in written and spoken Spanish will include drill on pronunciation, the essentials of grammar, and reading.

Texts: Coester, *A Spanish Grammar* (Ginn); Hills, *Spanish Tales for Beginners* (Holt); Howland, *Zaragüeta* (Silver, Burdett & Co.).

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## SCHEDULE

### 8.30—9.20

Domestic Art 1  
 (8.30—11.20)  
 Domestic Science 2  
 (8.30—10.20)  
 Economics 1  
 Education 1  
 Education 7  
 English Composition 2  
 English Literature 3  
 German 2  
 German 4  
 History 3  
 Latin 2  
 Manual Training 1  
 (8.30—10.20)  
 Mathematics 1  
 Physics 3  
 Politics 2  
 Psychology 3

French 3  
 German 1  
 German 5  
 History 4  
 Manual Training 2  
 Mathematics 2  
 Physics 5  
 Spanish 2

### 11.30—12.20

Chemistry 6  
 Education 5  
 Education 10  
 Education 12  
 English Literature 4  
 French 2  
 History 1  
 Manual Training 3  
 Mathematics 3  
 Physics 2  
 Psychology 2

### 9.30—10.20

Biology 1  
 Chemistry 2  
 Education 2  
 Education 9  
 Education 11 (9.30—11.20)  
 (Demonstration School)  
 English Composition 4  
 English Literature 1  
 Geography  
 German 3  
 History 2  
 History 5  
 Physics 1  
 Politics 1  
 Spanish 1

### 12.30—1.20

Biology 2  
 Chemistry 1  
 Domestic Science 3  
 Economics 3  
 Education 4  
 Education 6  
 Education 13  
 English Literature 2  
 French 1  
 Latin 1  
 Mathematics 4  
 Physics 4

### 1.30—2.20

Chemistry 5  
 Domestic Art 2  
 (1.30—4.20)

### 2.30—4.20

Biological Laboratory  
 Chemical Laboratory  
 Physical Laboratory  
 Psychological Laboratory

### 4.30—5.45

Playground and Recreation

### 10.30—11.20

Chemistry 3  
 (10.30—1.20)  
 Chemistry 4  
 (10.30—1.20)  
 Domestic Science 1  
 (10.30—12.20)  
 Economics 2  
 Education 3  
 Education 8  
 English Composition 1  
 English Composition 3

# THE JOHNS HOPKINS UNIVERSITY

BALTIMORE

FOUNDED 1876

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A FACULTY OF 257 PROFESSORS, ASSOCIATES, INSTRUCTORS AND LECTURERS

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Forty-first year opens October 3, 1916  
For circulars address T. R. BALL, Registrar

THE  
JOHNS HOPKINS  
UNIVERSITY CIRCULAR

EDITED BY

THOMAS R. BALL

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SUMMER COURSES

JUNE 26—AUGUST 7

1917

UNIVERSITY OF ILLINOIS

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APRIL, 1917

## CALENDAR, 1917

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June 12, Tuesday—Commencement Day.

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June 23, Saturday— } 9 a. m. to 5 p. m., Registration,  
June 25, Monday— } Academic Building, Homewood.

June 26, Tuesday—8.30 a. m., Instruction in the Summer Courses begins.

July 4, Wednesday—Independence Day: *University buildings closed.*

August 7, Tuesday—Close of Summer Courses.

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October 2, Tuesday—Forty-second regular session begins.

October 8, Monday—College Courses for Teachers, ninth year begins.

October 15, Monday—Evening Courses in Business Economics and in Engineering, second year begins.

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All work will begin promptly on Tuesday morning, June 26, according to the schedule on page 3 of cover. It is important that students should reach Baltimore in time to be present at the opening exercise of each course.

*Registration should be made prior to June 26.*

# THE JOHNS HOPKINS UNIVERSITY

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## SUMMER COURSES 1917

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### OFFICERS OF ADMINISTRATION

FRANK J. GOODNOW, LL. D.  
*President of the University*

EDWARD F. BUCHNER, PH. D.  
*Director of the Summer Courses*

THOMAS R. BALL,  
*Registrar*

W. GRAHAM BOYCE,  
*Treasurer*

---

### INSTRUCTORS

JOSEPH S. AMES, PH. D. Professor of Physics.	<i>Physics</i>
ALDA L. ARMSTRONG Maryland Children's Aid Society.	<i>School Attendance</i>
FRANK P. BACHMAN, PH. D. General Education Board.	<i>Educational Administration</i>
BIRD T. BALDWIN, PH. D. Professor of Psychology and Education, Swarthmore College, and Lecturer on Education.	<i>Education</i>
FLORENCE E. BAMBERGER, A. M. Instructor in Education.	<i>Elementary Education</i>
ERNEST J. BECKER, PH. D. Principal, Eastern High School, Baltimore.	<i>English</i>
ELBERT J. BENTON, PH. D. Professor of History, Western Reserve University.	<i>History</i>
FRANK R. BLAKE, PH. D. Associate in Oriental Languages.	<i>Semitics</i>
ANNA BROCHHAUSEN, A. B. Supervising Principal, Indianapolis Public Schools.	<i>Elementary Education</i>
ERASMO BUCETA, DOCTOR EN DERECHO Instructor in Spanish.	<i>Spanish</i>
HOWARD V. CANTER, PH. D. Associate Professor of Classics, University of Illinois,	<i>History and Latin</i>
ARTHUR B. COBLE, PH. D. Associate Professor of Mathematics.	<i>Mathematics</i>



- GEORGE A. CONLON *Fine Arts*  
Instructor, Maryland Institute of Art.
- CLARENCE G. COOPER, B. S. *Elementary and Rural Education*  
Assistant Superintendent of Schools, Baltimore County, Maryland.
- KNIGHT DUNLAP, PH. D. *Psychology*  
Professor of Experimental Psychology.
- ISRAEL EFROS, PH. D. *Philosophy*
- AARON EMBER, PH. D. *Semitics*  
Associate Professor of Semitic Languages.
- HOWARD E. ENDERS, PH. D. *Biology*  
Professor of Zoology and Head of General Biology, Purdue University.
- GEORGE M. GAITHER *Manual Training*  
Supervisor of Manual Training, Baltimore Public Schools.
- J. ELLIOTT GILPIN, PH. D. *Chemistry*  
Collegiate Professor of Chemistry.
- GUSTAV GRUENBAUM, PH. D. *French*  
Instructor in Romance Languages.
- WILLIAM J. HOLLOWAY, A. M. *Elementary Education*  
Superintendent of Schools, Wicomico County, Maryland.
- GEORGE L. JONES *School Attendance*  
Secretary, Maryland Children's Aid Society.
- EDITH A. LATHROP, A. M. *Rural Education*  
Assistant in Rural Education, United States Bureau of Education.
- JACK LONDON *Penmanship*  
Palmer School of Penmanship, Atlanta, Georgia.
- BENJAMIN F. LOVELACE, PH. D. *Chemistry*  
Associate Professor of Chemistry.
- C. ETHEL MACROBERTS, A. B. *Secondary Education*
- RALPH V. D. MAGOFFIN, PH. D. *Classical Archaeology and Art*  
Associate Professor of Greek and Roman History.
- E. H. KEMPER MCCOMB, A. M. *Secondary Education*  
Acting Principal and Head of English Department, Manual Training High School, Indianapolis.
- FREDERICK A. MERRILL, B. S. *Agricultural Education*  
Professor of Economics, State Normal School, Athens, Georgia.
- PERSIS K. MILLER *School-Community Relations*  
Principal, Public School No. 76, Baltimore City.
- ARTHUR C. MILLSPAUGH, PH. D. *Politics*  
Acting Professor of Political Science, Whitman College.
- A. HERMAN PFUND, PH. D. *Physics*  
Associate Professor of Physics.
- CHILTON L. POWELL, PH. D. *English*  
Instructor in English.
- HENRY A. ROSEN *Fine Arts*  
Instructor, Maryland Institute of Art.
- ROBERT B. ROULSTON, PH. D. *German*  
Associate in German.

CAROL M. SAX	<i>Fine Arts</i>
Instructor, Maryland Institute of Art.	
MAY SECREST, B. S.	<i>Domestic Science</i>
Head of Household Arts Department, State Polytechnic School, San Luis Obispo, California.	
HENRY SLONIMSKY, PH. D.	<i>Philosophy</i>
Associate in Philosophy.	
WILLARD S. SMALL, PH. D.	<i>Education</i>
Principal, Eastern High School, Washington, D. C.	
EDITH H. STEWART	<i>Fine Arts</i>
Instructor, Maryland Institute of Art.	
DAVID G. THOMPSON, A. M.	<i>Geography</i>
Instructor in Geology, Goucher College.	
JAMES W. TUPPER, PH. D.	<i>English</i>
Professor of English, Lafayette College.	
C. Y. TURNER, N. A.	<i>Fine Arts</i>
Director of the Maryland Institute of Art.	
CHARLES H. WEBB	<i>Fine Arts</i>
Instructor, Maryland Institute of Art.	
NATHANIEL R. WHITNEY, PH. D.	<i>Economics</i>
Assistant Professor of Economics, Iowa State University.	
HENRY WOOD, PH. D.	<i>German</i>
Professor of German.	

## SCHOOLS OF OBSERVATION

1. *Rural Demonstration School*

EDITH A. LATHROP, A. M.	A 112*	<i>Grades I-VII</i>
United States Bureau of Education.		

2. *Elementary School*

IDA V. FLOWERS	M 109	<i>Grades I and II</i>
Practice Teacher, Baltimore City Schools.		
MAUDE B. SMITH	M 121	<i>Grade IV</i>
Teacher in Pimlico School, Baltimore County, Maryland.		
HELEN M. BURNETT	M 117	<i>Grade V</i>
Teacher in Baltimore City School.		
MATILDA SRAGER	C 115	<i>Grade VI</i>
Teacher in New York City School.		
JULIA F. BECK	C 215	<i>Grade VII</i>
Practice Teacher, Baltimore City Schools.		

3. *Practice Class in Teaching Art*

CAROL M. SAX	M 119	<i>Drawing, Modelling, and Design</i>
Instructor, Maryland Institute of Art.		

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\* Buildings: A, Academic; C, Civil Engineering; M, Mechanical Engineering.

## GENERAL STATEMENT

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The seventh year of the Summer Courses of the Johns Hopkins University will open on Tuesday, June 26, and continue until Tuesday, August 7, inclusive. Exercises in each subject will be held every week-day, Monday to Friday, excepting Wednesday, July 4. Each course will consist of thirty class exercises or their equivalent. In the sciences laboratory work will be additional. Examinations will be held at the close of the session.

As the summer courses are authorized by the Trustees and their credits fixed by the various Boards of study, they are an integral part of the work of the University. All the resources of the institution essential to their conduct are placed at the disposal of the students.

The principal object of the University in making provision for the summer work is to furnish instruction to teachers in all grades of schools, and to other persons who seek opportunities for instruction, with or without reference to an academic degree. Some courses offered are designed to meet the needs of graduate and collegiate students who wish to advance their standing or to make up deficiencies; others, to enable non-matriculated students to absolve in part the entrance requirements. Also courses in some subjects not given in the regular session are offered to meet special needs of schools.

## CHARACTER OF INSTRUCTION

The courses maintain the standard of instruction which characterizes the work of the regular session in the subjects representing graduate and collegiate departments, as well as in those introduced to meet the special needs of teachers. In addition to the regular class exercises, instructors hold daily conferences, in which the work of the courses is supplemented and adapted to the particular needs of individuals.

## DEMONSTRATION AND OBSERVATION SCHOOLS

There will be conducted at the University, in coöperation with the Baltimore County Board of Education, an elementary school of seven grades, designed primarily to demonstrate typical means and material for more effective teaching in rural schools.

In coöperation with the Baltimore Board of School Commissioners a free elementary school, including the first, second, fourth, fifth, sixth and seventh grades, will be conducted as a means of affording illustrative material for the courses in elementary education. Pupils of the Baltimore Public Schools will be given an opportunity to make up deficiencies or do advanced work, the same as in the regular city vacation schools, and the privilege of promotion, in accordance with their achievements in the classes from the fourth to the seventh grades, inclusive.

Three city graded vacation schools, including possibly a vocational school, will be open during the session and available to students for observation in connection with the courses in elementary education.

A group of classes for practice teaching in drawing, modelling, and design will be organized in connection with the course on the theory and practice of teaching art.

#### SELECTION OF COURSES

Candidates for an advanced degree should arrange their program in consultation with the department in which their principal subject lies. New students expecting to become candidates should present their cases to the Director.

Candidates for a baccalaureate degree should consult with the Dean or the Director prior to the opening of the session, in the selection of courses that will meet the requirements of the regulations for the degrees.

Students seeking credit that will enable them to meet in part or in full the requirements of state and city certificates, should select their academic and professional courses in accordance with the regulations in force under the Board of Education or of Examiners to which their record will be submitted for acceptance.

#### ACADEMIC CREDIT

Graduate courses, leading to the degree of Master of Arts, will be credited by the respective departments in accordance with the rule of the Board of University Studies: the requirement of one of the two-years residence for this degree may be met by attendance and study in three sessions of the Summer Courses. These courses are designated by *G*.

Students matriculated as candidates for any of the baccalaureate degrees will receive credit for the satisfactory completion of those courses designated by *C*. In general the same credit is given per hour as in the regular college courses, *e. g.*, a lecture course of thirty hours has a credit of two "points," or one-third of the credit for a course of three hours per week through the college year. Provided, however, the student follows but two courses, an additional credit may be given. The exact amount of additional credit in each course is determined by the instructor according to the work accomplished, subject to the approval of the Director, but in no case will an additional credit to exceed fifty per cent be given, nor can a total credit of more than eight points be allowed a student in one summer session.

Students not matriculated in the University will receive certificates indicating the amount of work satisfactorily performed. These certificates will indicate the value of the work done in each course, and will be accepted by State, County, and City Superintendents and Boards of Examiners in the extension or renewal of teachers' certificates, according to law.

#### ADMISSION AND ATTENDANCE

There are no formal examinations for admission. Students, both men and women, will be admitted to such courses as they are found qualified by the respective instructors to pursue with advantage.

The session will open promptly on June 26th, carrying out the schedule provided on page 3 of cover. The Registrar's office (219 Academic Building) will be open for registration on Saturday, June

23, Monday, June 25, and Tuesday, June 26, from 9 a. m. to 5 p. m. After June 29, admission to each course will be restricted to registered students. With the consent of the Director, students may make changes in their courses, which must be reported in person to the Registrar, up to and including June 29. After this date no change of courses will be permitted.

All fees, including both tuition and special laboratory fees, must be paid to the Treasurer immediately as an item in registration.

#### NEW LOCATION

The University is occupying its new buildings at Homewood, a tract of one hundred twenty-three acres in the northern part of Baltimore, where the session will be held. Entrances are on North Charles Street at 32nd and 34th streets. Footpath entrances are through Wyman Park, which lies on the southern and western sides of the grounds.

Homewood is reached from Camden Station (B. & O. Railroad) by the St. Paul Street trolley line, cars marked "Guilford-Union Station;" from the Mt. Royal Station (B. & O. Railroad) by walking two blocks east to Charles Street, and from Union Station (Pa., N. C., and W. M. Railroads) by the trolley line on Charles Street, marked "Roland Park" or "Guilford-Union Station;" and also by the north-bound blue motor-bus on Charles Street. One should alight at 32nd or 34th Street.

#### EXPENSES

The tuition fee is \$25.00, payment of which entitles the student to attend as many as three courses. An additional course, with the exceptions noted in the statements of certain courses, may be attended, with the approval of the Director, upon the payment of an extra fee of \$10.00. (Under very exceptional circumstances, a student may register in one course only, the tuition fee in such cases being \$15.) The fees for the courses in Fine Arts and in Penmanship will be found in the statements of these courses, respectively. The fee for the use of the tennis courts at the athletic field, including towel service, is \$2.00. Additional fees are required for materials used in some of the courses. (For details, see statements of courses.)

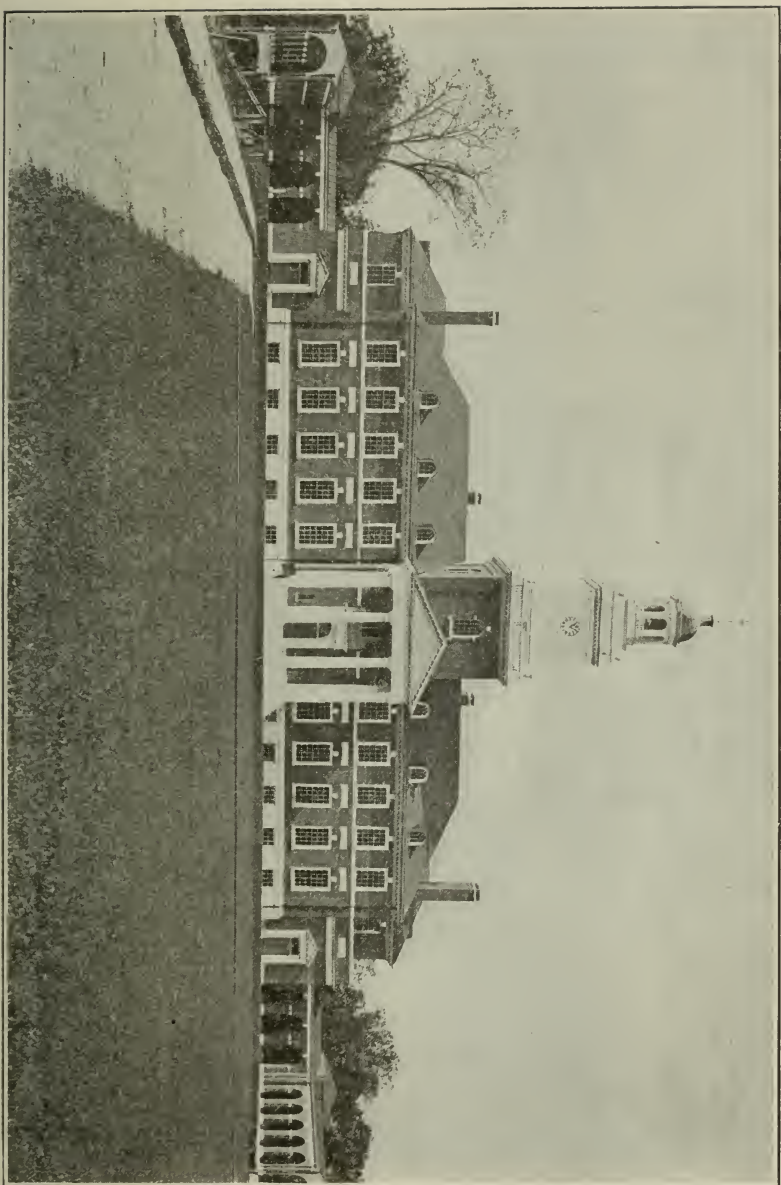
No reduction of fees will be allowed for late entrance; nor for withdrawal, except on account of serious personal illness.

Checks will be received in payment of fees when drawn for the exact amount to the order of the Johns Hopkins University. For the convenience of students while in residence at the University, the Treasurer will receive out-of-town checks and drafts for payment upon collection. There is no charge for this service other than the exchange.

#### BOARD AND LODGING

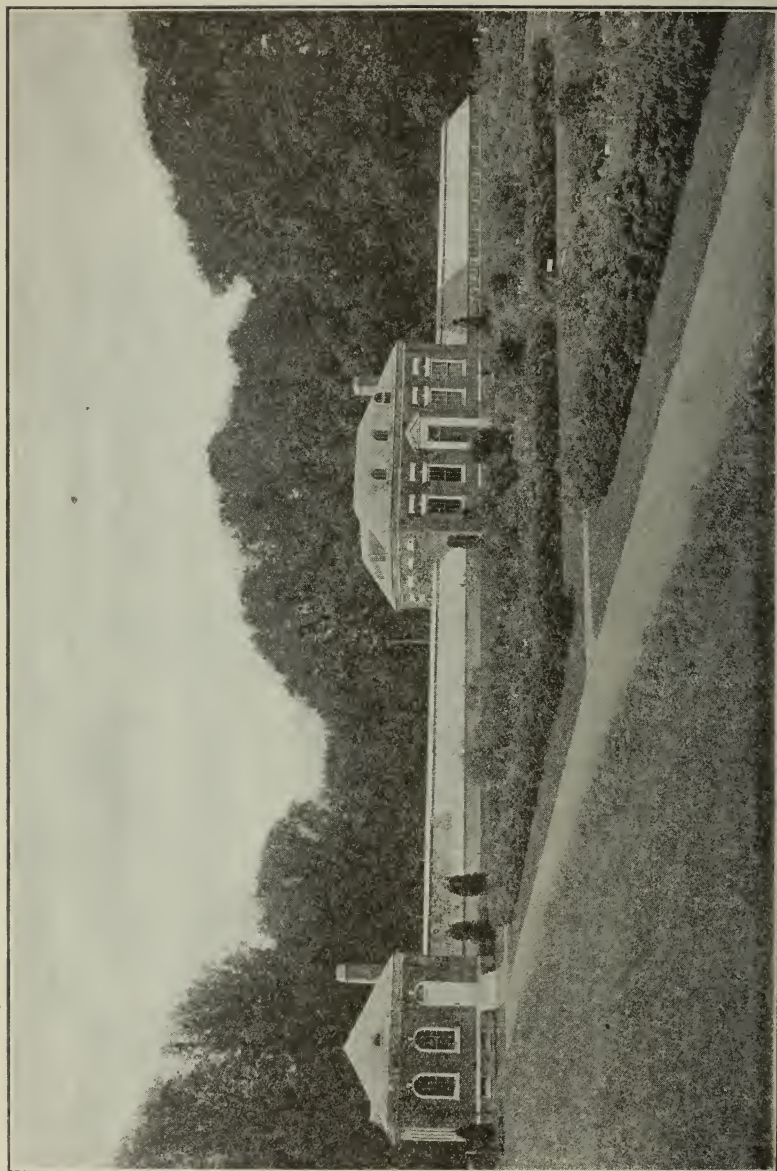
The University has no dormitories. Comfortable furnished rooms in private homes in the vicinity of the University are offered for rent at prices ranging from \$1.50 to \$3 per week for a single room, and \$3.00 to \$7.00 a week for a suite of rooms. Board can be had in private boarding-houses or in public restaurants at prices ranging from \$3.50 to \$6.00 per week. A printed list of boarding and lodg-





ACADEMIC BUILDING





LABORATORIES OF BOTANY AND PLANT PHYSIOLOGY

ing houses will be sent upon request. The lunch room in the Student Activities Building on the campus will be open daily during the session.

#### LECTURES AND RECITALS

In addition to the social opportunities afforded by the opening and closing receptions, students are invited to the lectures and recitals which will be given every Wednesday afternoon and Friday evening, in co-operation with the Summer Session of the Peabody Conservatory of Music.

#### EXCURSIONS

Saturday excursions will be made to Annapolis, the State capital, and Washington, D. C., both within an hour's ride by trolley, and to points of interest in and about Baltimore.

#### THE UNIVERSITY POST-OFFICE AND BOOK-STORE

The University post-office, Academic Building, will be open. Students may have their mail addressed in care of Johns Hopkins University.

The Johns Hopkins Press Book-Store (102 Academic Building) supplies officers and students with text books, stationery, and other materials at list prices. The book-store will be open daily.

#### BUREAU OF APPOINTMENTS

The University Bureau of Appointments extends its services *gratis* to the students registered in the Summer Courses. These services include assistance in placing students in academic and non-academic positions. The Director, Associate Professor Magoffin, (308 Academic Building) will be present throughout the session.

#### SUMMER COURSES FOR GRADUATES IN MEDICINE

Beginning June 1st and extending for six weeks, the Medical School of the Johns Hopkins University, in co-operation with the Johns Hopkins Hospital, offers to graduates in medicine courses in Medicine, Surgery, and the various specialties. The special circular describing these courses and any other information concerning them may be obtained by addressing the Dean of the Johns Hopkins Medical School, Washington and Monument Streets. The fees vary from \$25 to \$100, according to the number and character of the courses taken.

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## COURSES OF INSTRUCTION

## BIOLOGY

## 1. GENERAL BIOLOGY. Professor ENDERS. C 9.30 A 11 \*

The course is open to all students without previous training in science. Study and comparison, with the aid of the microscope, of typical organisms from the simpler, as amoeba and yeast, to the more complex. The lectures will deal with the manner in which plants and animals carry on their activities, and will point out our present interpretations and biological theories.

Texts: Abbott, *General Biology* (Macmillan); Enders, *Laboratory Directions in General Biology*.

## 2. ZOOLOGY. Professor ENDERS. C 12.30 A 11

The laboratory work of this course consists of a study of such representative animals as amoeba, hydra, an earthworm, a crayfish, and a frog. The behavior of these animals as well as their structure will be studied, including occasional field excursions to streams, forests, and open fields, for the purpose of becoming better acquainted with the habitats of animals. The lectures will supplement, for the most part, the work in the laboratory, but a few lectures will be devoted to the more general problems of zoological science.

Texts: Hegner, *College Zoology* (Macmillan).

NOTE—If students who completed Course 2 last year desire to go on with vertebrates this summer, they may procure Pratt's *Vertebrate Zoology* (Ginn).

## 3. THE TEACHING OF BOTANY IN SECONDARY SCHOOLS. Professor ENDERS and Assistant. C 11.30 A 11

The course will include laboratory study of plant material with reference to the needs of secondary schools, and a consideration of methods of teaching botany.

Laboratory fee: \$1.00, for each course.

## CHEMISTRY

## 1. ORGANIC CHEMISTRY. Professor GILPIN. G 12.30 C 114

This course is intended for those who have had a thorough training in inorganic chemistry and will be suited to the needs of graduate students and those who wish to prepare for entrance to the Medical School.

Texts: Remsen, *Organic Chemistry* (Heath); Norris, *Organic Chemistry* (McGraw Hill Book Co.).

## 2. ADVANCED INORGANIC CHEMISTRY. Associate Professor LOVELACE. G 9.30 Chemical Lab., Druid Hill Avenue.

A course of lectures for advanced students.

## 3. INORGANIC REACTIONS AND INORGANIC PREPARATIONS. Associate Professor LOVELACE. G 10.30-1.20 Chem. Lab.

A laboratory course.

## 4. QUANTITATIVE ANALYSIS. Associate Professor LOVELACE. G 10.30-1.20 Chem. Lab.

A laboratory course.

## 5. HOUSEHOLD AND TEXTILE CHEMISTRY. Professor GILPIN. C 1.30 C 114

This course is intended for those who have taken elementary courses in chemistry and domestic science. In addition to a discussion of the general principles of organic chemistry, such subjects as fuels, combustion, oxidation, water (its purification and analysis), food principles, preparation and testing of foods, soaps, chemical nature of fabrics, principles of dyeing, cleansing agents, etc., will be presented.

\*Buildings: A, Academic; C, Civil Engineering; M, Mechanical Engineering.

In the laboratory the work will follow the line of household or textile chemistry, as the student may select.

6. INTRODUCTION TO GENERAL CHEMISTRY. Professor GILPIN. C 11.30 C 114

No previous knowledge of chemistry is required for this course. It will include, as far as possible in the time allowed, a study of the more important non-metallic and metallic elements and their properties. Remsen's *Chemistry* (Briefer Course) will be used as a basis for the class-room and laboratory work.

Laboratory fees: \$5.00 for one course, or for morning or afternoon work; \$8.00 for two courses or for work all day. (The fee for materials does not include the cost of small pieces of apparatus not returnable, and the charge for breakage to be paid at the close of the session. This additional expense averages about \$2.00).

CLASSICAL ARCHAEOLOGY

THE PRIVATE LIFE OF THE ROMANS. Associate Professor MAGOFFIN. G and C 8.30 A 109

This course will be carried on by means of class-room and museum lectures, and will include practical exercises requiring the use of a wide range of archaeological objects in the Johns Hopkins Archaeological Museum.

The course will be the equivalent of the Collegiate Course, Classical Archaeology and Art 1. Advanced students will be expected to complete supplementary work. (See History 4).

DOMESTIC SCIENCE

1. ADVANCED COOKERY. Miss SECREST. C 10.30-12.20 M 114

The aim of this course is to apply the principles of cookery and to consider the economic and nutritional questions involved in the selection, preparation and serving of food. The preservation of foods of all types, the food-value of foods, and the planning, cooking and serving of different priced dietaries for children, adults, and invalids will be studied in recitation and laboratory.

Pre-requisite: Course 2, or its equivalent. Parallel: Chemistry 5.

Laboratory fee: \$5.00.

2. ELEMENTARY COOKERY. Miss SECREST. C 8.30-10.20 M 114

This course will present the principles involved in cooking and preserving protein, fat and carbohydrate foods, and deal with food preparation based on a knowledge of the composition of foods and the changes produced by micro-organisms, heat and moisture. The equipment of the home kitchen will be studied.

Pre-requisite or parallel: Chemistry 6.

Laboratory fee: \$5.00.

3. METHODS OF TEACHING DOMESTIC SCIENCE. Miss SECREST. C 12.30 M 114

This course includes a study of selection of subject matter of courses, different types of institution in which cookery is taught, and adaptation of courses of study to their needs, the correlation of the subject with other studies, equipment, lesson planning, methods of presentation, and practice in teaching.

Laboratory fee: \$2.50.

NOTE—Under a recently adopted rule, graduates of the Baltimore Female High Schools, or of other schools of the same standard, who have collegiate credits in domestic science and other subjects aggregating sixty points, are eligible to take the examinations for teachers of cooking in the Baltimore city schools.

ECONOMICS

1. SOCIAL REFORMS. Assistant Professor WHITNEY. G 8.30 A 315

In this course consideration will be given to some of the more important social reforms which are now receiving attention. Such topics as social insurance, the minimum wage, child labor, workmen's compensation, the single tax, income and inheritance taxation, labor organization, immigration, and socialism, will furnish the basis for discussion. Special readings will be assigned on each topic.

Pre-requisite: Course 2 or its equivalent.



2. ELEMENTS OF ECONOMICS. Assistant Professor WHITNEY. C 10.30 A 315

A study will be made of the principles of economics, and the application of these principles to everyday life will be noted.

Text: Ely, *Outlines of Economics*.

3. ECONOMIC HISTORY. Assistant Professor WHITNEY. C 12.30 A 315

The evolution of industrial society from some of its primitive forms down to its present organization will be traced. Particular attention will be paid to the changes which have occurred in industry and the effect of these changes on economic theory and social progress.

Text: Cheyney, *Social and Industrial History of England*.

## EDUCATION

1. EXPERIMENTAL EDUCATION. Professor BALDWIN. G 9.30 A 113

This course deals with psycho-educational processes in action from the scientific point of view, and is based upon a comparative study of investigations in educational research. Emphasis will be placed on methods of approaching educational problems and the application and evaluation of measuring scales and mental tests. Researches will be undertaken in those problems which can be approached in the time limits of the session.

Lectures, demonstrations, experiments, and special reports.

2. EDUCATIONAL PSYCHOLOGY. Professor BALDWIN. G 12.30 A 113

This course begins with a consideration of the aims and technique of general and experimental psychology and emphasizes the study of the development of mental traits and individual differences throughout childhood and adolescence. Work is carried on by means of lectures, texts, reports, demonstrations, and elementary experiments.

3. EDUCATIONAL ADMINISTRATION. Dr. SMALL and Dr. BACHMAN. G 8.30 A 113

(a). The course will present a survey of the present status, tendencies, and problems of public education in the United States from the standpoint of the needs of State, county, and city systems. Each member of the class will be expected to select a specific problem for special investigation and report.

(b). During the third week of the session, July 9-13, a special conference on the current problems in Maryland county and state administration will be conducted by Dr. Bachman, including discussions of reports on special topics. The hour of the conference will be arranged.

4. SCHOOL ATTENDANCE PROBLEMS. Mr. JONES and Miss ARMSTRONG. C 9.30 A 313

This course is designed to provide such training as will enable school attendance officers to interpret correctly problems related to the school, and to formulate working methods by which the resources of the county and the State may be used to remove the causes of truancy and delinquency by improving social conditions in homes and neighborhoods. Lectures, conferences, and field work.

5. HIGH SCHOOL ORGANIZATION. Dr. SMALL. G and C 10.30 A 314

This course will include a brief historical review of the American high school, and special study of the important present problems in the organization and management of the high school: Aims, differentiation of courses, electives, program making, junior high school, supervised study, student activities, and community relations. Lectures, assigned readings and reports.

6. THE TEACHING OF LITERATURE IN SECONDARY SCHOOLS. Mr. McCOMB. C 8.30 A 310

The course will include the choice and presentation of literature in secondary schools, and the discussion of home reading and the use of pictures and other aids in teaching literature.

7. THE TEACHING OF ENGLISH COMPOSITION IN SECONDARY SCHOOLS. Mr. McCOMB. C 9.30 A 310

The course will consider the problems of teaching English composition, both oral and written, including the relation of composition to literature and other

subjects in the curriculum. Specimen compositions will be handled. The instructor will be glad to have members of the class bring in sets of compositions for such use.

8. THE TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS. Miss MACROBERTS. C 8.30 A 311

The aim of this course is to present a study of recent developments in the teaching of mathematics in the high school. Attention will be given to the presentation of typical methods of recitation and to the applications of the subjects in various lines. Reports on assigned readings will be required.

9. THE TEACHING OF SCIENCE IN SECONDARY SCHOOLS. Miss MACROBERTS. C 12.30 A 310

This course is designed for teachers who wish to get in touch with the modern theories and practice of teaching science in the secondary school. The course will include the arrangement and treatment of subject matter, the place and scope of laboratory work, and suggestions for meeting special needs and problems of members of the class. The work will include reports on special readings.

10. THE TEACHING OF AGRICULTURE IN SECONDARY SCHOOLS. Professor MERRILL. C 9.30 A 10

The aims, materials and methods of teaching agriculture will be discussed, and the relative values of experiments, demonstrations and observation lessons will be considered. A study of the close correlation of this subject with other high school sciences, the planning of agricultural courses and lessons that develop this relationship, and the more important agricultural products of the State will be included.

Text: Warren, *Elements of Agriculture* (Macmillan).

For courses on teaching other secondary subjects, see Biology 3, Fine Arts 7 and 10, Latin 1, Manual Training 3, and Physics 5.

11. SCHOOL MANAGEMENT. Supt. HOLLOWAY. C 11.30 A 310

This course is designed primarily to meet the needs of principals of town, village and rural schools, and will consider first the various problems of internal organization, and proceed to a consideration of the relation of the school to outside activities. Lectures, text, required reading, and reports. See Course 12.

12. GRADED DEMONSTRATION SCHOOL. Miss BAMBERGER, Miss BROCHHAUSEN, Mr. COOPER, and Miss MILLER. C 7.30 C 120

The purpose of this course is to furnish a practical study of the teaching process in graded elementary schools by means of systematic observation and conference reports and discussion. The school will include classes of the first, second, fourth, fifth, sixth, and seventh grades.

One conference, 7.30 a. m., four observation hours per week, and two written reports during the course will be required. The classes are open for observation to those registered for Course 12.

The first meeting of the Conference will be at 7.30 a. m. on Wednesday, June 27. On June 27, 28, and 29, Miss Persis K. Miller, Principal of Public School No. 76, Locust Point, Baltimore, will deliver three lectures on the extension of school life into definite community activity and modes of securing the co-operation of public and private community organizations for the interest of the school. The topics of these lectures will be health, vocational adjustments, and thrift, as experimentally demonstrated in Public School No. 76. Opportunity will be given to visit the school and the Locust Point community. These three lectures are open to all members of the session without registration in Course 12.

For demonstration purposes, the Board of Directors of the Park School, Baltimore, has extended the use of the special material of instruction and equipment characteristic of its work.

Course 12 will provide demonstrations for Courses 13, 14, 15, 16, 17, 18, and 19.

13. ELEMENTARY SCHOOL SUPERVISION. Miss BAMBERGER and Miss BROCHHAUSEN. G and C 10.30 A 320

This study of the professional duties of the supervisor and the supervising principal will include as its chief topics principles of curriculum making, programs and lesson plans, criticism of instruction, and the improvement of teachers in service. Discussion will be based upon lesson plans in actual use and on observations in the Graded Demonstration School, Course 12.

Attention is called to the three lectures on school-community relations to be given by Miss Miller on June 27, 28, and 29. See Course 12.



14. GRAMMAR GRADE METHODS. Miss BAMBERGER. C 12.30 A 314

This course will present the theory and practice of teaching the various subjects in the last four years of the elementary school. Topics to be considered will include the selection of subject matter, the method of instruction, and the management of children. Discussions will be based upon observation of lessons in the Graded Demonstration School, Course 12. Outside reading and written reports.

15. PRIMARY GRADE METHODS. Miss BROCHHAUSEN. C 11.30 A 314

By means of lectures and discussions this course will consider the problems peculiar to the first four years of the elementary school. The subject matter for each grade will be outlined, and effective methods for presenting the material will be given. The course will be developed in connection with observation in the Graded Demonstration School, Course 12. Outside reading and reports.

Text: Strayer, *A Brief Course in the Teaching Process* (Macmillan).

16. THE TEACHING OF ENGLISH IN THE ELEMENTARY SCHOOL. Miss BROCHHAUSEN. C 9.30 A 314

The course of lectures, reports, and discussions will be devoted to the teaching of English in the eight grades of the elementary school. Special emphasis will be placed upon the teaching of oral and written composition, the correlation between composition and literature, and the relation of spelling and grammar to composition. Systematic observation in the Graded Demonstration School will form a part of the work of the course. Outside reading will be required.

17. THE TEACHING OF ARITHMETIC AND GEOGRAPHY IN THE ELEMENTARY SCHOOL. Miss BAMBERGER. C 8.30 A 314

The first part of the course will deal with recent developments in the material and methods of teaching arithmetic in the eight grades of the elementary school. The fundamental processes, drill, and application of arithmetic to modern business will be considered.

The aims, materials, and methods of teaching geography in the elementary school will be considered in the second part of the course. The preparation of lesson plans will receive attention. The course throughout will include observations in the Graded Demonstration School. Readings and written reports.

18. THE TEACHING OF AGRICULTURE IN THE ELEMENTARY SCHOOL. Professor MERRILL. C 8.30 A 10

This course deals with the problems of teaching agriculture in the rural and village school. The review of subject matter, selection of materials, correlation with nature study and other subjects, and methods of presentation and aids to better teaching, will be considered with reference to usual conditions found in the elementary schools of the State and to the State requirements for teachers' certificates. The utilization of school gardens, agricultural products clubs, and school and community clubs will be discussed.

Texts: State Manual, *Elementary Vocational Agriculture for Maryland Schools*; Ivins and Merrill, *Practical Lessons in Agriculture* (American Book Co.).

For courses on teaching other elementary subjects, see Domestic Science 3, Fine Arts 6, 7 and 10, Manual Training 3, and Penmanship 2.

19. SUPERVISION OF RURAL SCHOOLS. Mr. COOPER. G and C 9.30 A 100

The aim of this course is to study the technical work of this field of supervision in the light of the larger problems of the place and meaning of the rural school. The chief topics will be the present status of rural education in the United States, the newer rural economic and social problems in relation to the specific work of the supervisor both in the school and in the community, the course of study, aims and methods of school visitation including the principles of criticism of teaching, the training of teachers in service, and some of the practical problems of the supervisor.

Lectures, required readings, special reports, and critiques of lessons observed in the demonstration schools.

20. RURAL SCHOOL: METHODS COURSE. Miss LATHROP. C 11.30 A 112

In this course an opportunity will be given for a discussion of the principles illustrated in Course 21, the demonstration school. Special emphasis will be placed upon the program, daily preparation of the teacher, the keeping of a plan book, seat work, the recreation period, and the possibilities of vocational subjects in the rural school. In addition, attention will be given to school buildings, rural hygiene, and consolidation. Library readings and reports will be required. Open only to those taking Course 21.

## 21. RURAL DEMONSTRATION SCHOOL. Miss LATHROP. C 9.30-11.20 A 112

The purpose of this course will be to illustrate by the laboratory method the organization of a one-teacher school where seven grades are represented. It will be shown how by alternation, combination, and elimination the number of classes can be reduced to the least possible number. The course of study for Maryland will be the basis upon which the program will be built. Attention will be given to seat work, the recreation period, and the vitalization of the rural school.

Open only to those taking Course 20.

## 22. THE PRINCIPLES OF ELEMENTARY TEACHING. Mr. COOPER. C 11.30 A 311

This course will present the principles of teaching in their application to the state elementary course of study, including special methods in teaching the various subjects throughout the grades. Review of subject matter will be made wherever necessary. The course is especially designed, in connection with Course 23, to meet the new legal requirement of persons wishing to secure the minimum preparation for teaching.

Texts: Strayer and Norsworthy, *How to Teach* (Macmillan); Kendall and Mirick, *How to Teach the Fundamental Subjects* (Houghton Mifflin Co.).

## 23. SCHOOL LAW AND SCHOOL MANAGEMENT. Supt. HOLLOWAY. C 12.30 A 311

In close connection with Course 22 the problems of the organization of a school, program making, class and pupil management, text-books, supplies and apparatus, care and supervision of school property, the legal duties of teachers, trustees and school boards, as officers of the state, contracts, records and reports will be studied so as to meet the needs of persons wishing to secure the minimum preparation for teaching. The work will be based on the Maryland School Law and Elementary Course of Study.

### ENGLISH COMPOSITION

#### 1. PRACTICAL WRITING. Dr. POWELL. C 10.30 A 312

The fundamental aim of this course will be to cultivate both clear thinking and accurate and to some extent artistic writing. An effort will be made to treat each student individually, and by personal conferences to develop any latent ability for literary work. Representative prose and poetry will be used as texts for study.

#### 2. ADVANCED COMPOSITION. Dr. POWELL. C 8.30 A 312

The chief feature of this course will be the study of the construction of a well-organized and logical essay. It will include constant practice of the organization, writing, and criticism of short essays.

The work of this class will be practically identical with that of the second semester of the first-year collegiate program.

#### 3. ELEMENTS OF ENGLISH COMPOSITION. Dr. BECKER. 8.30 A 100

The plan of this course provides for a systematic review of the fundamental principles of English composition. The subject will be considered from the view point of both teacher and pupil. Frequent exercises in writing will form the basis for class discussion and personal conference.

#### 4. ENGLISH GRAMMAR. Dr. BECKER. 10.30 A 100

A review of the essentials, with special regard to the needs of teachers of the subject.

### ENGLISH LITERATURE

#### 1. WORDSWORTH AND COLERIDGE. Professor TUPPER. G 9.30 A 320

A minute study of the writings of these authors, with considerable outside reading.

Texts: *Wordsworth's Poetical Works*, ed. Hutchinson (Oxford University Press); *The Poetical Works of Coleridge*, ed. Coleridge (Oxford University Press).

#### 2. ENGLISH DRAMA. Professor TUPPER. G 12.30 A 320

A study of the development of the English drama from the Restoration to Sheridan, including reports on special topics.

Text: *Representative English Dramas*, ed. Tupper (Oxford University Press).

### 3. CHAUCER. Professor TUPPER. G 8.30 A 212

The reading of Chaucer will be used as a center of linguistic work in English. The course will be adapted to meet the needs of students of the English language.

Texts: Ten Brink's *The Language and Metre of Chaucer* (Macmillan); Chaucer, *The Prologue to the Canterbury Tales*, *The Knight's Tale*, *The Nonnes Preestes Tale*, ed. Liddell (Macmillan).

### 4. ENGLISH LITERATURE, 1775-1892. Dr. POWELL. C 11.30 A 312

This course will treat the leading literary works of the poets, novelists, and essayists in the Romantic and Victorian periods and will include some discussion of the writers themselves and the development of literary and philosophic thought. The course parallels the second half of English Literature 4 in the collegiate program.

## FINE ARTS

The courses in Fine Arts are given in coöperation with the Maryland Institute, of Baltimore, and constitute the second summer session of its School of Art and Design. The instruction will be given at Homewood, where the special facilities for out-of-door work in the practical courses will be constantly used. Students matriculated as candidates for a baccalaureate degree may offer these courses, as indicated, for credit. Registration in these courses is subject to the approval of Director Turner.

### 1. LIFE AND PORTRAIT. Director TURNER and Mr. WEBB. C 9.30-11.20 C 120

In this course an opportunity is afforded advanced students to draw and paint from the model for composition, or head and figure painting in oil, or charcoal drawing. The work in this course leads to magazine illustration, mural painting, and portraiture.

### 2. LIFE AND PORTRAIT. Director TURNER and Mr. WEBB. C 11.30-1.20 C 120

A continuation of Course 1. Students may elect Fine Arts 1 and 2 jointly or separately.

### 3. LANDSCAPE AND STILL-LIFE IN OIL PAINTING. Mr. ROSEN. C 9.30-11.20 M 202

This course is designed for students in fine arts who desire drawing in color to lead to more advanced work, or to specialize in out-of-door painting.

The abundant variety of views about the University grounds and near-by points of interest will be utilized on all pleasant days; otherwise, the study will consist of still-life or flowers indoors.

### 4. LANDSCAPE AND STILL-LIFE IN OIL PAINTING. Mr. ROSEN. C 11.30-1.20. M 202

A continuation of Course 3. Students may elect Fine Arts 3 and 4 jointly or separately.

### 5. LANDSCAPE SKETCHING, WATER COLOR. Miss STEWART. C 11.30-1.20 M 206

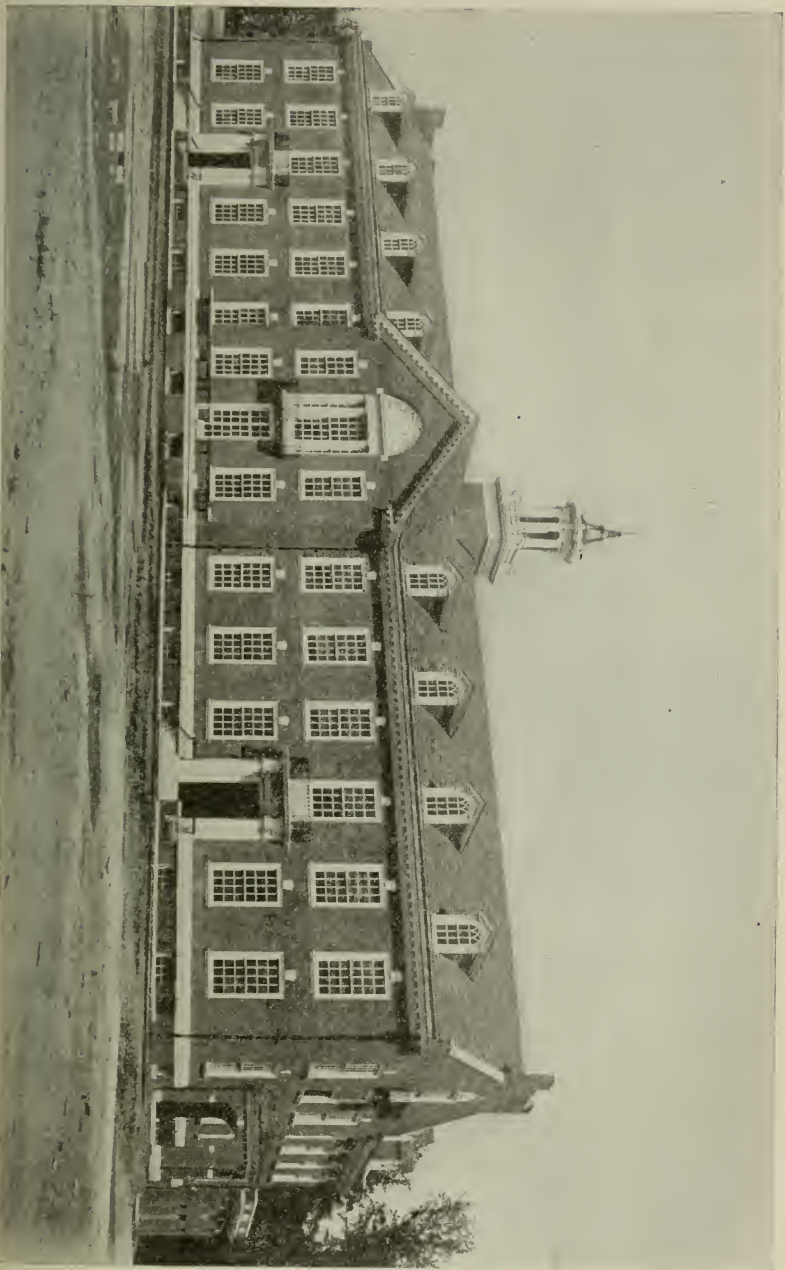
This course is designed for advanced students in Fine Arts, and deals with nature studies made on the grounds of the University, in which different methods of handling the medium of water colors will be given.

### 6. ELEMENTARY SCHOOL COLOR WORK. Miss STEWART. C 9.30-11.20 M 206

This course provides practice with color work throughout the grades in the elementary school. The objects used will be flowers and still life of familiar forms, the selection of material being adapted to meet school needs.

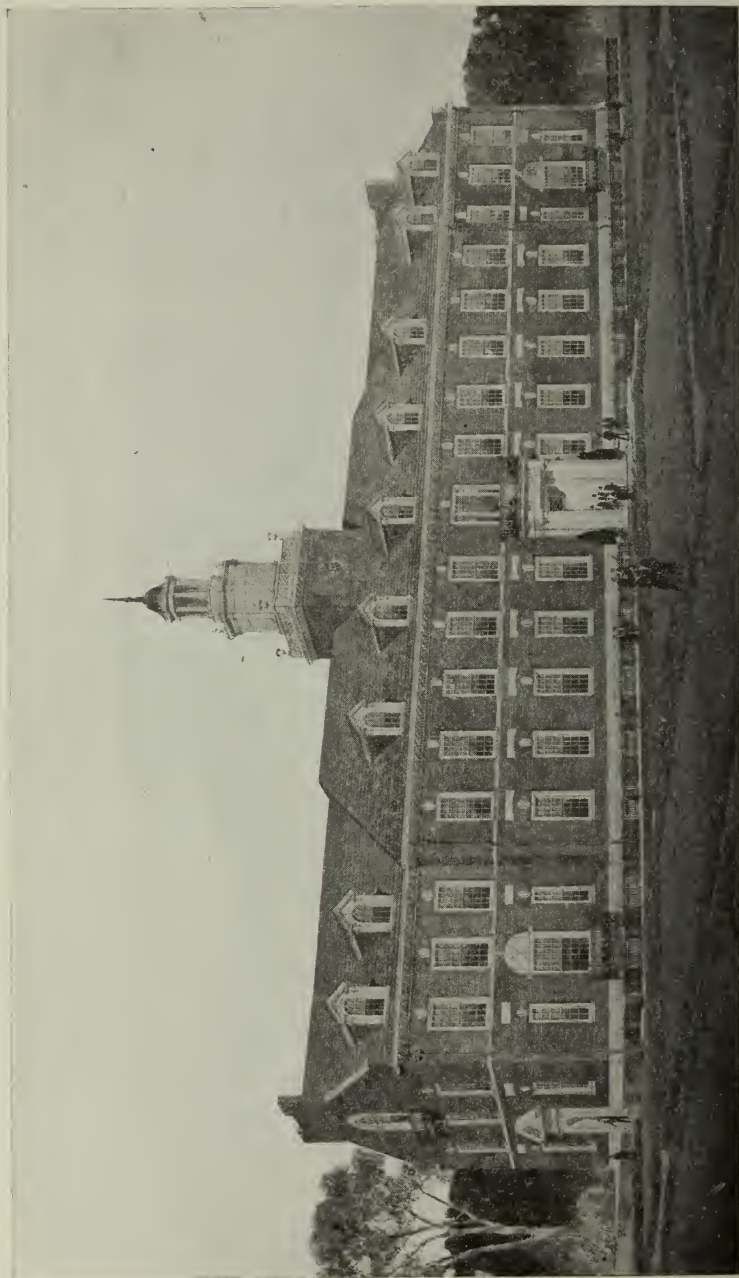
### 7. THE THEORY AND PRACTICE OF TEACHING ART. Mr. SAX. C 9.30-11.20 M 119

This course deals with practical art problems of the class room in both elementary and secondary schools. It is designed to meet the needs of those who are preparing to become supervisors of art. It will also give special aid to grade teachers who desire further training in teaching art. A class of pupils will be available for class practice in teaching art. Lectures, papers, reading, and practice teaching.



MECHANICAL AND ELECTRICAL ENGINEERING BUILDING





CIVIL ENGINEERING BUILDING

## 8. PRINCIPLES OF DESIGN. Mr. SAX. C 11.30 M 116

The principles that underlie all applications of design will form the subject-matter of this course. They will be studied first in the abstract, and then in nature and historical ornament from the point of view of their application. The course will include studio work, lectures, and reports on required reading.

This course is open to those who have completed the first year's work at the Maryland Institute, or who have had equivalent training, and also to those taking the Theory and Practice of Teaching Art.

## 9. PRINCIPLES OF DESIGN. Mr. SAX. C 12.30 M 116

This elementary course on the principles of design is open to beginners, and will include studies in space filling, arrangement in straight and curved lines, distribution of light and dark, and color arrangements.

## 10. DRAWING. Mr. CONLON. C 10.30-12.20 C 214

This course in drawing is designed for those who wish to teach drawing and desire to add to their methods of instruction in the Fine Arts.

## 11. ELEMENTARY DRAWING. Mr. CONLON. 8.30-10.20 C 214

This course in drawing is designed for those who have had no instruction in the subject.

The regular tuition fee for the courses in Fine Arts is \$10, upon payment of which students may elect from one to four hours of instruction. Students regularly registering in courses in other departments are permitted to elect one or two hours of work in this department upon the payment of an additional fee of \$5. It should be noted that of the double-period courses a one-hour period may be taken in Courses 6, 10, and 11; in all other courses, the minimum period is two hours. Changes in the schedule may be made to meet the convenience of a majority of the students. Excepting Courses 8 and 9, academic credit will be allowed only for the satisfactory completion of a double-period course.

## FRENCH

## 1. THE ROMANTIC PERIOD. Dr. GRUENBAUM. G and C 12.30 A 205

This course is intended for students who have considerable facility in reading modern French. The minimum of preparation for entrance is the work outlined for Course 2. Lectures in French, collateral readings, and composition. Advanced students will do supplementary work.

Texts: Chateaubriand, *Atala* (Heath); Hugo, *Hernani* (American Book Company); Hugo, *Quatre-vingt-treize* (Heath); Lamartine, *Graziella* (Heath); Musset, *Trois Comédies* (Heath); Canfield, *French Lyrics* (Holt); Comfort, *French Prose Composition* (Heath).

## 2. READINGS IN FRENCH. Dr. GRUENBAUM. C 11.30 A 205

This course is intended for students who have had the equivalent of Course 3. Work in composition will accompany the reading of modern French prose.

Texts: Dumas, *Le Chevalier de Maison-Rouge* (American Book Company); Maupassant, *Short Stories*, ed. Brush (Holt); Daudet, *Tartarin de Tarascon*, ed. Cerf (Ginn); Talbot, *French Composition* (Sanborn).

## 3. ELEMENTARY FRENCH. Dr. GRUENBAUM. C 10.30 A 205

This course is planned for students beginning the study of French. The work will consist of a study of the essentials of grammar, drill in pronunciation, composition, and careful reading of texts.

Texts: Aldrich and Foster, *Foundations of French*. (Ginn); Malot, *Sans Famille*, ed. Spiers (Heath); About, *La Mère de la Marquise*, ed. Brush (Heath).

NOTE.—Satisfactory completion of this course will be counted as partial fulfillment of the entrance requirements in French.

## GEOGRAPHY

## 1. PHYSICAL GEOGRAPHY. Mr. THOMPSON. C 11.30 C 5

A brief survey of the materials of the earth's crust will be followed by a study of the physical features of the earth's surface and the process by which they have been developed, and of the factors of climate and weather. The influence of these physical factors of environment on the life of man will be emphasized. Field trips may be taken to study the physiographic features of the Baltimore region.

Text: Salisbury, *Physiography, Briefer Course*, (Holt).



## 2. ECONOMIC AND COMMERCIAL GEOGRAPHY. Mr. THOMPSON. C 9.30 C 5

A review of the elements of man's physical environment will be followed by a study of the influence of geographic factors in the development of civilization and especially of commerce and industry, as shown by a survey of some of the principal products, transportation routes, and foreign trade relations of the United States. Attention will be given to geographic influences in history. No prerequisites, but it is desired that the student shall have a knowledge of the elements of physical geography.

NOTE.—The courses in geography will be organized in such a way that they should be of value either to the general student or to teachers of geography in the elementary or high schools.

### GERMAN

1. THE PERIOD OF "STURM UND DRANG" IN GERMAN LITERATURE, 1772-1785. Professor WOOD. G. 10.30 A 216
2. (a) CHAPTERS IN THE HISTORY OF GERMAN LITERARY STYLE, BEGINNING WITH THE PERIOD OF LESSING. Professor WOOD. G 8.30 A 216

The stylistic characteristics of the classical period of Goethe and Schiller, of German Romanticism, Das Junge Deutschland, the dramatic theories of Hebbel and Otto Ludwig, the technic of the German bourgeois novel (Freytag und Spielhagen), and the radical reforms of the Jungste Deutschland (Gerhart Hauptmann, etc.) will be considered.

or,

- (b) READINGS IN MIDDLE HIGH GERMAN. Professor WOOD. G

Besides class readings in the Courtly Epic, the Volksepos and the Minnesong, the course will include a comparison between the Middle High German and the modern German lyric, as to form and content, and the relation of modern adaptations (Wagner's Ring der Nibelungen and Parsifal) to their originals.

NOTE.—Choice between 2 (a) and 2 (b) will be dictated by the ascertained needs of those taking part in the course.

3. PRACTICAL EXERCISES. Dr. ROULSTON. G and C 9.30 A 216

The nature of this course will depend somewhat on the previous training of those who wish to follow it. A thorough knowledge of the grammar, together with the ability to read German quite fluently, will be presupposed.

4. READINGS IN GERMAN. Dr. ROULSTON. C 8.30 A 103

Intended for those who already have some knowledge of the language. Special attention will be paid to the acquisition of a reading vocabulary.

Texts: Heyse, *Vetter Gabriel*, ed. Corwin (Holt); Meyer, *Gustav Adolfs Page*, ed. Roulston (Holt); Fontane, *Grete Minde*, ed. Thayer (Holt).

5. ELEMENTARY GERMAN. Dr. ROULSTON. C 10.30 A 103

In this course emphasis will be laid primarily on the grammar of the language. It will meet the needs of those beginning the language and of such as desire a thorough review in the grammar.

Text: Vos, *Essentials of German*, 4th Edition, 1914 (Holt).

NOTE.—Satisfactory completion of this course will be counted as partial fulfillment of the entrance requirements in German.

### HISTORY

1. AMERICAN HISTORY, 1763-1795. Professor BENTON. G 10.30 A 305

A study of the westward movement in the eighteenth century, including the elements of population in the westward migration, frontier society, influences of the frontier, British and early national policy toward the West.

2. AMERICAN HISTORY SINCE 1783. Professor BENTON. C 8.30 A 305

A survey of American history during the national period with emphasis on the development of nationality, the influence of Hamilton, Jefferson, Jackson, Calhoun, Lincoln, Stevens, Roosevelt, and Wilson, the expansion of national domain, and new elements of population.

Texts: Fish, *The Development of American Nationality* (American Book Company); Farrand, *The Framing of the Constitution* (Yale University Press); Charnwood, *Life of Abraham Lincoln* (London, Constable & Co.).

### 3. EUROPEAN HISTORY FROM CHARLEMAGNE TO THE EIGHTEENTH CENTURY. Professor BENTON. C 11.30 A 305

A study of mediaeval civilization, the Empire, the Papacy, the Renaissance, the Reformation, and the rise of absolute monarchies. Special attention will be given to the methods of studying and of teaching the subject matter.

Texts: Robinson, *History of Western Europe* (Ginn); Robinson, *Readings in European History*, Volumes I and II (Ginn).

### 4. ROMAN HISTORY. Associate Professor CANTER. C 9.30 A 108

This course will give a general survey of Roman History from the beginning through the reign of Augustus. Emphasis will be laid on the political and social aspects of the period.

Texts: Pelham, *Outlines of Roman History* (Putnams); Frank, *Roman Imperialism* (Macmillan); Collateral readings in Mommsen, *Provinces of the Roman Empire* (Scribners).

See Classical Archaeology. For History of the Ancient East, see Semitics 5.

## LATIN

### 1. THE TEACHING OF CAESAR IN SECONDARY SCHOOLS. Associate Professor CANTER. C 12.30 A 108

Selections from the Gallic and Civil Wars. This is a teachers' course in which special attention will be given to the problems of Latin instruction in the second year; also to the nature and use of illustrative materials, with a review and discussion of the most helpful literature bearing on Caesar as an author in secondary schools.

Text: Mather, *Caesar, Gallic and Civil Wars* (American Book Co.).

### 2. VIRGIL: *Aeneid I-VI*. Associate Professor CANTER. 8.30 A 108

The work will cover the fourth year of high school Latin; special attention will be directed to the literary and stylistic qualities of the *Aeneid*.

Text: Knapp, *Virgil, Aeneid* (Scott, Foresman & Co.).

NOTE.—Should there be a sufficient demand, this course will become a teachers' course on Virgil, for which credit will be allowed.

## MANUAL TRAINING

### 1. BENCH WORK IN WOOD AND MECHANICAL DRAWING. Mr. GAITHER. C 8.30-10.20. M

This course includes the use of tools and bench work in wood in the upper elementary and lower secondary grades, the use of drawing instruments and making simple working drawings, outlining courses, planning equipment and methods of individual and class exercise. Advanced construction in both hard and soft woods will be available for advanced students.

Laboratory fee: \$3.50.

### 2. ELEMENTARY MANUAL TRAINING. Mr. GAITHER. C 10.30 M

This course includes hand-work processes in paper, cardboard, weaving, raffia, basketry, bookbinding and woodwork suitable for the first six years of the elementary schools, and in materials suitable for rural schools.

Those desiring training as playground and recreation leaders will find this course adapted to their needs.

Laboratory fee: \$2.50.

### 3. THE THEORY AND PRACTICE OF TEACHING MANUAL ARTS. Mr. GAITHER. C 11.30 M

This course is designed to meet the needs of supervisors and teachers of Manual Arts, and will include study of aims and methods of manual training in elementary and secondary schools, planning courses, equipment of manual arts rooms, selection of materials, cost, and the special problems of supervision. Lectures, assigned readings, and reports.

NOTE.—Students satisfactorily completing Courses 1 and 3 will be eligible to take the examination for manual training teachers in Baltimore city schools, provided they are graduates of secondary schools equal in entrance requirements to the secondary schools of Baltimore.

## MATHEMATICS

### 1. ELLIPTIC FUNCTIONS. Associate Professor COBLE. G 8.30 A 2

The subject will be developed as it arises from the study of the elliptic integral. Pre-requisites: Differential and Integral Calculus.

2. PROJECTIVE GEOMETRY AND THE ALGEBRA OF FORMS. Associate Professor COBLE. G 10.30 A 2

Pre-requisite: Analytic Geometry.

3. ANALYTIC GEOMETRY. Associate Professor COBLE. C 11.30 A 2

A study of the straight line, the parabola, differentiation of algebraic functions, curves and their tangents, with applications.

4. ALGEBRA. Associate Professor COBLE. 12.30 A 2

This course will cover algebra (b) for matriculation. In case of a larger demand for lectures on topics in elementary geometry suitable for teachers, the subject will be changed.

## MUSIC

The Peabody Conservatory of Music of Baltimore is announcing its summer session of six weeks, June twenty-fifth to August fourth. In addition to instruction in the departments of singing, piano, organ, violin, 'cello, and composition, its program includes a number of courses in public school music: A, Subject Matter; B, Public School Music Methods; C, History of Music and Musical Appreciation; D, Chorus and School Orchestra; E, Lectures and Discussions of Various Phases of Public School Music.

These courses will be arranged in two groups—one for supervisors and directors of music or those wishing to prepare for such work, including B, C, D, and E; the other for grade teachers, including A, B, and C. Candidates for the University degree of Bachelor of Science may offer for credit the several courses in public school music when officially reported by the Conservatory as having been satisfactorily completed.

Circulars containing full particulars will be sent on application to either the University or the Conservatory.

## PHILOSOPHY

1. TYPICAL VIEWS OF LIFE. Dr. SLONIMSKY. G and C 10.30 A 113

A study of the typical philosophies of life as manifested in the successive phases of the history of Western Civilization: Hebraism; Hellenism; Early Christianity; the Mediaeval Outlook; the Renaissance; the Enlightenment of the Eighteenth Century; Goethe; Nietzsche and the reaction against morality; William James and the theory of America. The presentation of the general historical and cultural background of each period will be followed by the detailed consideration of one or two classics representative of the period. Lectures, readings, and reports.

2. MEDIAEVAL JEWISH PHILOSOPHY. Dr. EFROS. G and C 12.30 A 101

A preliminary treatment of Platonism, Aristotelianism, and Arabian Scholasticism as influencing the Jewish thinkers of the Middle Ages will lead to special study of the systems of Saadya, Gabirol, Maimonides, Gersonides, and Crescas, and a determination of their specific contribution to the History of Philosophy.

See Courses in Semitics.

## PENMANSHIP

1. PENMANSHIP. Mr. LONDON. A 8

This course will be arranged in several sections so as to include primary, intermediate, and advanced work, and methods of teaching the muscular movement system. Attention will be given to corrective measures and suggestions for business penmanship.

2. METHODS OF TEACHING PENMANSHIP. Mr. LONDON. A 8

This course is designed to meet the needs of supervisors and special teachers of the subject.

Tuition fee: \$2.50, for each course.

## PHYSICS

1. SELECTED TOPICS IN THERMODYNAMICS. Professor AMES. G 9.30 M 104

2. AERODYNAMICS. Professor AMES. G 11.30 M 104

The physical principles of mechanical flight are discussed. A knowledge of advanced theoretical mechanics is a prerequisite.

3. MECHANICS AND HEAT. Associate Professor PFUND. C 8.30 M 110

Lectures and laboratory. A knowledge of algebra and plane geometry is required.

#### 4. ELECTRICITY AND MAGNETISM. Associate Professor PFUND. C 12.30 M 110

Lectures and laboratory.

#### 5. TEACHERS' COURSE IN GENERAL PHYSICS. Professor AMES and Associate Professor PFUND. C 10.30 M 110

A course designed for teachers in high schools. Manipulation and construction of simple apparatus for demonstration purposes will be taught; the use of the lantern will be explained; and, if there is a demand for instruction in photography, this will be given.

Laboratory fee for Courses 1 and 2: \$4.00, one or both.

### POLITICS

#### 1. INTERNATIONAL RELATIONS. Dr. MILLSPAUGH. G 8.30 A 320

A study of Pan-Americanism from an historical and diplomatic point of view, including the special problems of international law and policy which affect the relations of the United States. Lectures, readings, and special reports.

#### 2. INTERNATIONAL ARBITRATION. Dr. MILLSPAUGH. G and C 11.30 A 320

The fundamental relations between states, the causes of international differences, and the methods of conciliation and arbitration. Lectures, readings, and special reports.

### PSYCHOLOGY

#### 1. RESEARCH IN PSYCHOLOGY. Professor DUNLAP. G A 401

Opportunity for experimental work is offered to persons who are prepared to carry on independent investigations. The student may work on a problem which he has already under way, or a new problem will be assigned him. In any case, the student should communicate with the instructor as early as possible, in order that facilities for the work may be provided.

#### 2. REAL AND APPARENT PROBLEMS IN PSYCHOLOGY. Professor DUNLAP. G 11.30 A 401

A discussion of topics of present interest: The attempt to deny consciousness; the introspectionist, behaviorist, and scientific methods in psychology; the reaction basis of perception and thought; the nature of psychological measurements; the possibility of mental tests; the neural basis of the learning process; the development of the instincts; the function of the emotions; the disciples of Freud; the dual sex impulse; the basis of modesty and morality; the causes of dreams.

Pre-requisite: An elementary course in psychology.

#### 3. TRAINING COURSE IN LABORATORY PSYCHOLOGY. Professor DUNLAP and Assistant. G 9.30-11.20 A 401

There will be two divisions of this course: (a) for those who have had no laboratory work in psychology,—a series of fifty exercises covering the general methods of experimentation and observation, and demonstrating the most important phenomena of perception and judgment; (b) for those who have had elementary work in laboratory psychology,—a series of twenty exercises in the rigorous application of experimental methods.

Pre-requisite: An elementary course in psychology.

#### 4. INTRODUCTION TO GENERAL PSYCHOLOGY. Professor DUNLAP. C 8.30 A 401

This course is intended for those who have had no training in psychology, or who wish to review the elementary work. The essential facts and principles of analytical and functional psychology will be outlined in lectures, with demonstrations, supplemented by assigned reading.

### SEMITICS

#### 1. CRITICAL INTERPRETATION OF THE HEBREW TEXT OF THE BOOK OF JEREMIAH. Associate Professor EMBER. G 8.30 A 116

Text: Baer, Delitzsch edition of the Hebrew text of *Jeremiah*.

#### 2. GRAMMAR OF THE ARAMAIC IDIOM OF THE BABYLONIAN TALMUD. Associate Professor EMBER. G and C 9.30 A 116

The essentials of Talmudic grammar, the reading of numerous selections, and lectures on the origin and development of the Talmud.



Text: Margolis, *A Manual of the Aramaic Language of the Babylonian Talmud* (Stechert, N. Y.)

3. (a) ADVANCED HEBREW GRAMMAR. Associate Professor EMBER. G and C 10.30 A 116

Texts: Gesenius-Kautzsch, *Hebrew Grammar*; Kautzsch, *Uebungsbuch zur Hebräischen Grammatik von Gesenius-Kautzsch*.

or,

(b) ELEMENTARY ARABIC. Associate Professor EMBER. G

Text: Thatcher, *Arabic Grammar* (Brentano).

or,

(c) ELEMENTARY EGYPTIAN. Associate Professor EMBER. G

Egyptian grammar and interpretation of selected Hieroglyphic texts. The aim of the course is to enable the student to continue hieroglyphic studies without a teacher.

4. (a) ELEMENTARY HEBREW. Dr. BLAKE. G and C. 10.30 A 117

The principles of Hebrew grammar, and reading easy selections in Hebrew. Text: Davidson, *Introductory Hebrew Grammar*, 19th ed. (T. and T. Clark, Edinburgh.)

or,

(b) BIBLICAL ARAMAIC. Dr. BLAKE. G and C

Grammar of the Aramaic idiom of the books of Ezra and Daniel and interpretation of the Aramaic passages.

or,

(c) ELEMENTARY ASSYRIAN. Dr. BLAKE. G

Assyrian grammar and interpretation of selected cuneiform texts. The aim of the course is to enable the student to continue cuneiform studies without a teacher.

5. HISTORY OF THE ANCIENT EAST. Dr. BLAKE. G and C 8.30 A 117

The history of Babylonia, Assyria, Persia, Israel, Judah, and the minor nations of Western Asia, preceded by an account of the Prehistoric Period.

Text: Breasted, *Ancient Times* (Ginn).

6. LITERATURE OF THE OLD TESTAMENT IN THE LIGHT OF MODERN CRITICAL THEORIES. Dr. BLAKE. G and C 9.30 A 117

This course will include the history of the text of the Old Testament and the formation of the canon, the outlines of the documentary theory, and an account of the date, authorship, historical setting, purpose, etc., of the individual books of the Old Testament, supplemented by the reading and explanation of selected chapters on the basis of the English Bible.

Text: Moore, *The Literature of the Old Testament* (Holt).

NOTE—A knowledge of Hebrew or any other Oriental language is not required for Courses 5 and 6.

There are several copies of the text-books required in Courses 3 c, 4 b, and 4 c, available for the use of students in the University Library.

(See Philosophy 2, for Mediaeval Jewish Philosophy.)

## SPANISH

1. ADVANCED SPANISH. Dr. BUCETA. C 9.30 A 205

(a). A practical course in written and spoken Spanish for those who have already acquired the elements of the language. Spanish will be used exclusively in the class-room.

Texts: Umphrey, *Spanish Prose Composition* (American Book Co.); Bonilla, *Spanish Daily Life* (Nelson).

(b). Those who wish, instead of the above, a course in the modern novel and drama, with prose composition and conversation, should confer with the instructor.

2. ELEMENTARY SPANISH. Dr. BUCETA. C 10.30 A 206

This course will include the essentials of Spanish grammar and translation from elementary texts. Special attention will be given to pronunciation and oral practice.

Texts: Ingraham-Edgren, *Brief Spanish Grammar* (Heath); Hills, *Spanish Tales for Beginners* (Holt).



# SCHEDULE

7.30—8.20

Education 12, Conference

8.30—9.20

Classical Archaeology  
Domestic Science 2 (8.30—10.20)  
Economics 1  
Education 3  
Education 6  
Education 8  
Education 17  
Education 18  
English Composition 2  
English Composition 3  
English Literature 3  
Fine Arts 11 (8.30—10.20)  
German 2  
German 4  
History 2  
Latin 2  
Manual Training 1 (8.30—10.20)  
Mathematics 1  
Physics 3  
Politics 1  
Psychology 4  
Semitics 1  
Semitics 5

9.30—10.20

Biology 1  
Chemistry 2  
Education 1  
Education 4  
Education 7  
Education 10  
Education 16  
Education 19  
Education 21 (9.30—11.20)  
English Literature 1  
Fine Arts 1 (9.30—11.20)  
Fine Arts 3 (9.30—11.20)  
Fine Arts 6 (9.30—11.20)  
Fine Arts 7 (9.30—11.20)  
Geography 2  
German 3  
History 4  
Physics 1  
Psychology 3 (9.30—11.20)  
Semitics 2  
Semitics 6  
Spanish 1

10.30—11.20

Chemistry 3 (10.30—1.20)  
Chemistry 4 (10.30—1.20)  
Domestic Science 1 (10.30—12.20)  
Economics 2  
Education 5  
Education 13  
English Composition 1

English Composition 4

Fine Arts 10 (10.30—12.20)

French 3

German 1

German 5

History 1

Manual Training 2

Mathematics 2

Philosophy 1

Physics 5

Semitics 3

Semitics 4

Spanish 2

11.30—12.20

Biology 3  
Chemistry 6  
Education 11  
Education 15  
Education 20  
Education 22  
English Literature 4  
Fine Arts 2 (11.30—1.20)  
Fine Arts 4 (11.30—1.20)  
Fine Arts 5 (11.30—1.20)  
Fine Arts 8  
French 2  
Geography 1  
History 3  
Manual Training 3  
Mathematics 3  
Physics 2  
Politics 2  
Psychology 2

12.30—1.20

Biology 2  
Chemistry 1  
Domestic Science 3  
Economics 3  
Education 2  
Education 9  
Education 14  
Education 23  
English Literature 2  
Fine Arts 9  
French 1  
Latin 1  
Mathematics 4  
Philosophy 2  
Physics 4

1.30—2.20

Chemistry 5

2.30—4.20

Biological Laboratory  
Chemical Laboratory  
Physical Laboratory  
Psychological Laboratory

Penmanship: Hours to be arranged.

# THE JOHNS HOPKINS UNIVERSITY

BALTIMORE

FOUNDED 1876

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A FACULTY OF 315 PROFESSORS, ASSOCIATES, INSTRUCTORS AND LECTURERS

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Forty-second year opens October 2, 1917

For circulars address T. R. BALL, Registrar

THE  
JOHNS HOPKINS  
UNIVERSITY CIRCULAR

EDITED BY

THOMAS R. BALL

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SUMMER COURSES  
JULY 9—AUGUST 16  
1918

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BALTIMORE, MARYLAND  
PUBLISHED BY THE UNIVERSITY  
ISSUED MONTHLY FROM OCTOBER TO JULY  
MARCH, 1918

Entered, October 21, 1903, at Baltimore, Md., as second class matter, under  
Act of Congress of July 16, 1894

## CALENDAR, 1918

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June 11, Tuesday—Commencement Day.

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July 5—Friday	}	9 a. m. to 5 p. m., Registration, Gilman Hall, Homewood.
July 6—Saturday		
July 8—Monday		

July 9, Tuesday—8.30 a. m., Instruction in the Summer Courses begins.

July 13, Saturday—Classes meet as usual.

August 16, Friday—Close of Summer Courses.

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October 1, Tuesday—Forty-third regular session begins.

October 7, Monday—College Courses for Teachers, tenth year begins.

October 14, Monday—Evening Courses in Business Economics and in Engineering, third year begins.

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All work will begin promptly on Tuesday morning, July 9, according to the schedule on page 3 of cover. It is important that students should reach Baltimore in time to be present at the opening exercise of each course which they intend to pursue.

*Registration should be made prior to July 9.*

# THE JOHNS HOPKINS UNIVERSITY

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## SUMMER COURSES

1918

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### OFFICERS OF ADMINISTRATION

FRANK J. GOODNOW, LL. D.

*President of the University*

EDWARD F. BUCHNER, PH. D.

*Director of the Summer Courses*

THOMAS R. BALL,

*Registrar*

W. GRAHAM BOYCE,

*Treasurer*

---

### INSTRUCTORS

- |  |                                   |
|--|-----------------------------------|
| FLORENCE E. BAMBERGER, A. M.   | <i>Elementary Education</i>       |
| Associate in Education.  |                                   |
| FRANK R. BLAKE, PH. D.   | <i>Semitics</i>                   |
| Associate in Oriental Languages.   |                                   |
| W. PERRY BRADLEY   | <i>Recreation</i>                 |
| Scout Executive, Baltimore Council Boy Scouts of America.  |                                   |
| ANNA BROCHHAUSEN, A. B.  | <i>Elementary Education</i>       |
| Supervising Principal, Indianapolis Public Schools.  |                                   |
| EDWARD F. BUCHNER, PH. D.  | <i>Educational Administration</i> |
| Professor of Education.  |                                   |
| TERESA COHEN, A. M.  | <i>Mathematics</i>                |
| Fellow in Mathematics.   |                                   |
| HAROLD F. COTTERMAN, A. M.   | <i>Vocational Education</i>       |
| Professor of Agricultural Education and Dean of the Division of Vocational Education, Maryland State College of Agriculture. |                                   |
| JESSIE M. EBAUGH, A. B.  | <i>Secondary Education</i>        |
| Instructor, Franklin High School, Reisterstown, Md.  |                                   |
| HERMAN L. EBELING, PH. D.  | <i>History and Latin</i>          |
| Associate Professor of Greek and Instructor in Latin, Goucher College.   |                                   |



- LYNN A. EMERSON, E. E. *Vocational Education*  
Professor of Trade and Industrial Education, Maryland State College of Agriculture.
- HOWARD E. ENDERS, PH. D. *Biology*  
Professor of Zoology and Head of General Biology, Purdue University.
- GEORGE M. GAITHER *Manual Training*  
Supervisor of Manual Training, Baltimore Public Schools.
- J. ELLIOTT GILPIN, PH. D. *Chemistry*  
Collegiate Professor of Chemistry.
- CLARE E. GRIFFIN, A. M. *Economics*  
Instructor in Transportation.
- GEORGE R. HAVENS, PH. D. *French and Spanish*  
Instructor in Romance Languages, Indiana University.
- DORRIS S. HOUGH, A. B. *Recreation*  
National Field Captain, National Headquarters Girl Scouts.
- ALVEY M. ISANOGLA, A. B. *Secondary Education*  
Instructor, Thurmont High School, Maryland.
- BUFORD J. JOHNSON, PH. D. *Education and Psychology*  
Bureau of Educational Experiments, New York.
- EDWIN J. KOHL, S. M. *Biology*  
Instructor in Biology, Purdue University.
- JOHN H. LATANÉ, PH. D. *History*  
Professor of American History.
- ARTHUR C. MILLSPAUGH, PH. D. *Politics*  
Instructor in Political Science.
- ROBERT L. RAMSAY, PH. D. *English*  
Associate Professor of English, University of Missouri.
- HENRY A. ROSEN *Fine Arts*  
Instructor, Maryland Institute of Art.
- ROBERT B. ROULSTON, PH. D. *German*  
Associate Professor of German.
- CAROL M. SAX *Fine Arts*  
Instructor, Maryland Institute of Art.
- BLANCHE E. SHAFFER, S. B. *Home Economics*  
Instructor in Marketing, and Assistant in Household Chemistry, Teachers College, Columbia University.
- SARAH E. SIMONS, A. M. *Secondary Education*  
Head of Department of English, High Schools, The District of Columbia.

HENRY SLONIMSKY, PH. D.	<i>Philosophy</i>
Associate in Philosophy.	
EUGENE R. SMITH, A. M.	<i>Secondary Education</i>
Headmaster of the Park School, Baltimore.	
EDITH H. STEWART	<i>Fine Arts</i>
Instructor, Maryland Institute of Art.	
ROBERT A. STEWART, PH. D.	<i>Spanish and French</i>
Instructor in Romance Languages.	
JOHN E. UHLER, A. B.	<i>English</i>
Assistant in English.	
DAVID E. WEGLEIN, PH. D.	<i>Secondary Education</i>
Instructor in Education; Principal of Western High School, Baltimore.	
EFFIE M. WILLIAMSON, S. B.	<i>Elementary Education</i>
Primary Supervisor, Dorchester County, Maryland.	

_____	<i>Vocational Education</i>
_____	<i>Vocational Education</i>

DEMONSTRATION SCHOOL

GRADE IV	Gilman Hall 8
GRADE V	Gilman Hall 9
GRADE VI	Gilman Hall 112
GRADE VII	Gilman Hall 311
GRADE VIII	Gilman Hall 314
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PRACTICE CLASS IN TEACHING ART	Mechanical Engineering 119

## GENERAL STATEMENT

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The eighth year of the Summer Courses of the Johns Hopkins University will open on Tuesday, July 9, and continue until Friday, August 16, inclusive. Exercises in each subject will be held every week-day, Monday to Friday. In addition, on *Saturday, July 13, classes will meet as usual*. Each course will consist of thirty class exercises or their equivalent. In the sciences laboratory work will be additional. Examinations will be held at the close of the session.

As the summer courses are authorized by the Trustees and their credits fixed by the various Faculties, they are an integral part of the work of the University. All the resources of the institution essential to their conduct are placed at the disposal of the students.

The principal object of the University in making provision for the summer work is to furnish instruction to teachers in all grades of schools, and to other persons who seek opportunities for instruction, with or without reference to an academic degree. Some courses offered are designed to meet the needs of graduate and collegiate students who wish to advance their standing or to make up deficiencies; others, to enable non-matriculated students to absolve in part the entrance requirements. Also courses in some subjects not given in the regular session are offered to meet special needs of schools. War-time conditions will be especially considered in a number of courses.

### CHARACTER OF INSTRUCTION

The courses maintain the standard of instruction which characterizes the work of the regular session in the subjects representing graduate and collegiate departments, as well as in those introduced to meet the special needs of teachers. In addition to the regular class exercises, instructors hold daily conferences, in which the work of the courses is supplemented and adapted to the particular needs of individuals.

### DEMONSTRATION AND OBSERVATION SCHOOLS

In coöperation with the Baltimore Board of School Commissioners a free elementary school, including the fourth, fifth, sixth, seventh and eighth grades, will be conducted as a means of affording illustrative material for the courses in elementary education. This will be one of the city vacation schools in which pupils will be given an opportunity to make up deficiencies and to secure promotion at the beginning of the next school year.

Four other city elementary and four secondary vacation schools, including possibly a vocational school, will be open during the session and available for observation in connection with the courses in elementary and secondary education.

A class of pupils will be available for class practice in connection with the course on the theory and practice of teaching art.

## SELECTION OF COURSES

Candidates for advanced degrees should arrange their programs in consultation with the departments in which their principal subjects lie. New students expecting to become candidates should present their cases to the Director.

Candidates for a baccalaureate degree should consult with the College Dean or the Director prior to the opening of the session, in the selection of courses that will meet the requirements of the registration for the degree.

Students seeking credit that will enable them to meet in part or in full the requirements of state and city certificates, should select their academic and professional courses in accordance with the regulations in force under the Board of Education or of Examiners to which their record will be submitted for acceptance.

## ACADEMIC CREDIT

Graduate courses, leading to the degree of Master of Arts, will be credited by the respective departments in accordance with the rule of the Board of University studies: the requirement of one of the two years of residence for this degree may be met by attendance and study in three sessions of the Summer Courses. These courses are designated by *G*.

Students matriculated as candidates for any of the baccalaureate degrees will receive credit for the satisfactory completion of those courses designated by *C*. In general the same credit is given per hour as in the regular college courses, *e. g.*, a lecture course of thirty hours has a credit of two "points," or one-third of the credit for a course of three hours per week through the college year. Provided, however, the student follows but two courses, an additional credit may be given. The exact amount of additional credit in each course is determined by the instructor according to the work accomplished, subject to the approval of the Director, but in no case will an additional credit to exceed fifty per cent be given, nor can a total credit of more than eight points be allowed a student in one summer session.

Students not matriculated in the University will receive certificates indicating the amount of work satisfactorily performed. These certificates will indicate the value of the work done in each course, and will be accepted by State, County, and City Superintendents and Boards of Examiners in the extension or renewal of teachers' certificates, according to law.

## ADMISSION AND ATTENDANCE

There are no formal examinations for admission. Students, both men and women, will be admitted to such courses as they are found qualified by the respective instructors to pursue with advantage.

The session will open promptly on July 9, carrying out the schedule provided on page 3 of cover. The Registrar's office (219 Gilman Hall) will be open for registration on Friday, July 5, Saturday, July 6, Monday, July 8, and Tuesday, July 9, from 9 a. m. to 5 p. m. After July 11, admission to each course will be restricted

to registered students. With the consent of the Director, students may make changes in their courses, which must be reported in person to the Registrar, up to and including July 11. After this date no change of courses will be permitted.

All fees, including both tuition and special laboratory fees, must be paid to the Treasurer immediately as an item in registration.

#### NEW LOCATION

The University is occupying its new buildings at Homewood, a tract of one hundred and twenty acres in the northern part of Baltimore, where the session will be held. Entrances are on North Charles Street at 32nd and 34th Streets. Footpath entrances are through Wyman Park, which lies on the southern and western sides of the grounds.

Homewood is reached from Camden Station (B. & O. Railroad) by the St. Paul Street trolley line, cars marked "Guilford-Union Station"; from the Mt. Royal Station (B. & O. Railroad) by walking two blocks east to Charles Street, and from Union Station (Pa., N. C., and W. M. Railroads) by the trolley line on Charles Street, marked "Roland Park" or "Guilford-Union Station;" and also by the north-bound blue motor-bus on Charles Street. One should alight at 32nd or 34th Street.

#### EXPENSES

The regular tuition fee is \$25.00, payment of which entitles the student to attend as many as three courses. An additional course, with the exceptions noted in the statements of certain courses, may be attended, with the approval of the Director, upon the payment of an extra fee of \$10.00. (Under very exceptional circumstances, a student may register in one course only, the tuition fee in such case being \$15.)

The tuition fee for teachers employed in public schools in Maryland, as evidenced by superintendent's certificates, is \$12.50, payment of which entitles such persons to register in two or three courses.

The fees for the courses in Fine Arts and Recreation will be found in the statements of these courses, respectively. Additional fees are required for materials used in some of the courses. (For details, see statements of courses.)

The fee for the use of the tennis courts at the athletic field, including towel service, is \$2.00. The use of the campus tennis courts is free.

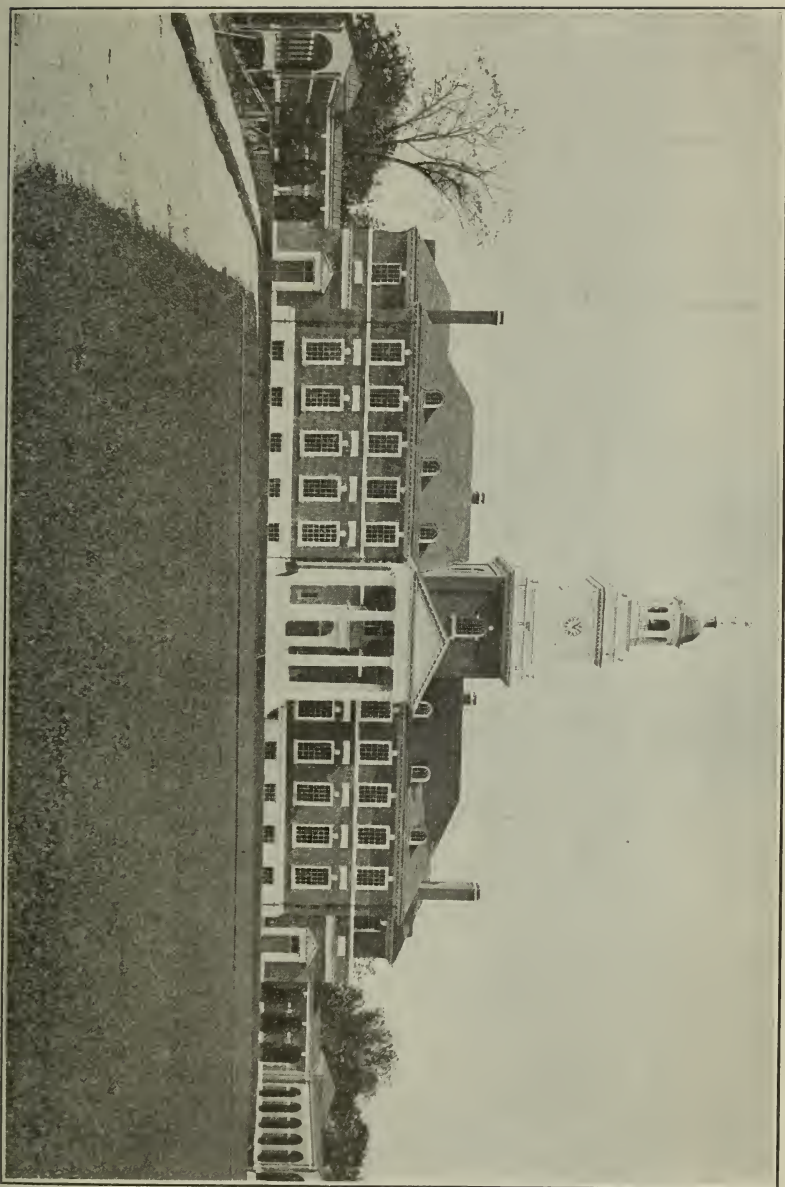
No reduction of fees will be allowed for late entrance; nor for withdrawal, except on account of serious personal illness.

Checks will be received in payment of fees when drawn for the exact amount to the order of the Johns Hopkins University. For the convenience of students while in residence at the University, the Treasurer will receive out-of-town checks and drafts for payment upon collection. There is no charge for this service other than the exchange.

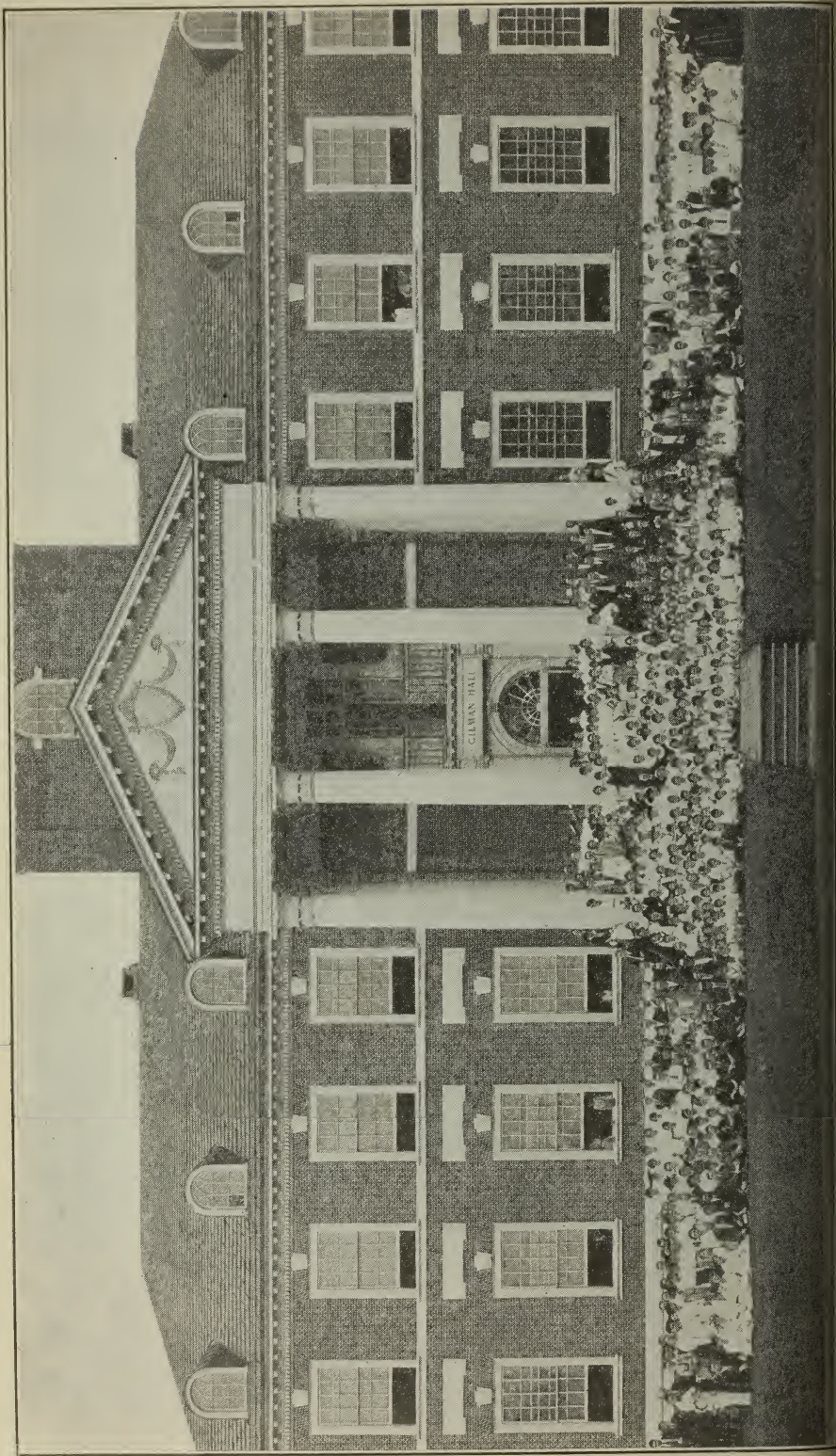
#### BOARD AND LODGING

The University has no dormitories. Comfortable furnished rooms in private homes in the vicinity of the University are offered for rent





GILMAN HALL



at prices ranging from \$2.00 to \$3.50 per week for a single room, and \$4.00 to \$7.00 a week for a suite of rooms. Board can be had in private boarding-houses or in public restaurants at prices ranging from \$5.00 to \$7.50 per week. A printed list of boarding and lodging houses will be sent upon request. The lunch room in the Student Activities Building on the campus will be open daily during the session.

#### LECTURES AND RECITALS

In addition to the social opportunities afforded by the opening and closing receptions, students are invited to the lectures and recitals which will be given every Wednesday afternoon and Friday evening, in coöperation with the Summer Session of the Peabody Conservatory of Music.

#### EXCURSIONS

Saturday excursions will be made to Annapolis, the State capital, and Washington, D. C., both within an hour's ride by trolley, and to points of interest in and about Baltimore.

#### THE UNIVERSITY POST-OFFICE AND BOOK-STORE

The University post-office, in Gilman Hall, will be open. Students may have their mail addressed in care of Johns Hopkins University.

The Johns Hopkins Press Book-Store (102 Gilman Hall) supplies officers and students with text books, stationery, and other materials at list prices. The book-store will be open daily.

#### BUREAU OF APPOINTMENTS

The University Bureau of Appointments extends its services *gratis* to the students registered in the Summer Courses. These services include assistance in placing students in academic and non-academic positions. (Office, 303 Gilman Hall).

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## COURSES OF INSTRUCTION

### BIOLOGY

1. GENERAL BIOLOGY. Professor ENDERS and Assistant. C 9.30  
G 11 \*

The course is open to all students without previous training in science. Study and comparison, with the aid of the microscope, of typical organisms from the simpler, as amoeba and yeast, to the more complex. The lectures will deal with the manner in which plants and animals carry on their activities, and will point out our present interpretations and biological theories.

Texts: Abbott, *General Biology* (Macmillan); Enders, *Laboratory Directions in General Biology*.

2. ZOOLOGY. Professor ENDERS. C 12.30 G 11

The laboratory work of this course consists of a study of such representative animals as amoeba, hydra, an earthworm, a crayfish, and a frog. The behavior of these animals as well as their structure will be studied, including occasional field excursions to streams, forests, and open fields, for the purpose of becoming better acquainted with the habitats of animals. The lectures will supplement, for the most part, the work in the laboratory, but a few lectures will be devoted to the more general problems of zoological science.

Texts: Hegner, *College Zoology* (Macmillan); Pratt, *Invertebrate Zoology* (Ginn).

3. THE TEACHING OF BOTANY IN SECONDARY SCHOOLS. Professor ENDERS and Assistant. C 11.30 G 11

The course will include laboratory study of plant material with reference to the needs of secondary schools, and a consideration of methods of teaching botany.

Laboratory fee: \$1.00, for each course.

NOTE.—Students who completed any of the courses in Biology in former summers and desire to continue in this subject will be assigned new work, for which credit will be allowed.

### CHEMISTRY

1. ORGANIC CHEMISTRY. Professor GILPIN. G 10.30 C 114

This course is intended for those who have had a thorough training in inorganic chemistry and will be suited to the needs of graduate students and those who wish to prepare for entrance into the Medical School.

Texts: Remsen, *Organic Chemistry* (Heath); Norris, *Organic Chemistry* (McGraw Hill Book Co.)

2. HOUSEHOLD AND TEXTILE CHEMISTRY. Professor GILPIN. C 1.30  
C 114

This course is intended for those who have taken elementary courses in chemistry and domestic science. In addition to a discussion of the general principles of organic chemistry, such subjects as fuels, combustion, oxidation, water (its purification and analysis), food principles, preparation and testing of foods, soaps, chemical nature of fabrics, principles of dyeing, cleansing agents, etc., will be presented.

In the laboratory the work will follow the line of household or textile chemistry, as the student may elect.

3. INTRODUCTION TO GENERAL CHEMISTRY. Professor GILPIN. C 11.30 C 114

No previous knowledge of chemistry is required for this course. It will include, as far as possible in the time allowed, a study of the more important non-metallic

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\* Buildings: G, Gilman Hall; C, Civil Engineering; M, Mechanical Engineering; S, Student Activities.

and metallic elements and their properties. Remsen's *Chemistry* (Briefer Course) will be used as a basis for the class-room and laboratory work.

Laboratory fees: \$5.00 for one course, or for morning or afternoon work; \$3.00 for two courses or for work all day. (The fee for materials does not include the cost of small pieces of apparatus not returnable, and the charge for breakage to be paid at the close of the session. This additional expense averages about \$2.00).

## DOMESTIC ART AND SCIENCE

(See courses in Home Economics and Vocational Education.)

## ECONOMICS

1. ECONOMIC HISTORY OF THE UNITED STATES. Mr. GRIFFIN. G and C 10.30 G 323

The course will be conducted largely as a course in reading from the sources supplemented by lectures and discussion. Special attention will be given to some of the latter-day problems of American economic life. An attempt will be made to meet the needs of teachers of history, civics and commerce.

Text: Bogart, *Economic History of the United States* (Longmans Green & Co.).

2. MONEY AND BANKING. Mr. GRIFFIN. C 8.30 G 323

A survey of the theory of money and of the history, theory and mechanism of banking. Special attention will be given to the Federal Reserve system, foreign exchange and the relations of banks to government credit operations.

Text: Holdsworth, *Money and Banking* (Appleton).

3. ELEMENTS OF ECONOMICS. Mr. GRIFFIN. C 11.30 G 323

A study will be made of the principles of economics and the application of those principles to everyday life will be noted.

Text: Ely, *Outlines of Economics* (Macmillan).

## EDUCATION

1. EXPERIMENTAL EDUCATION. Dr. JOHNSON. G 9.30 G 401

This course deals with psycho-educational processes in action from the scientific point of view, and is based upon a comparative study of investigations in educational research. Emphasis will be placed on methods of approaching educational problems and the application and evaluation of measuring scales and mental tests. Researches will be undertaken in those problems which can be approached in the time limits of the session.

Lectures, demonstrations, experiments, and special reports.

2. EDUCATIONAL PSYCHOLOGY. Dr. JOHNSON. G and C 12.30 G 320

This course begins with a consideration of the aims and technique of general and experimental psychology and emphasizes the study of the development of mental traits and individual differences throughout childhood and adolescence. Work is carried on by means of lectures, texts, reports, demonstrations, and elementary experiments.

3. EDUCATIONAL ADMINISTRATION. Professor BUCHNER. G and C 10.30 G 216

The course will present a survey of the present status, tendencies, and problems of public education in the United States from the standpoint of the needs of State, county, and city systems. Each member of the class will be expected to select a specific problem for special investigation and report.

## Secondary Education

4. SECONDARY SCHOOL ORGANIZATION AND CLASSROOM MANAGEMENT. Dr. WEGLEIN. G and C 11.30 G 310

This course will deal with some of the principal topics related to the organization



and administration of secondary schools; the historical development and function of the American high school; comparisons with secondary schools in other countries; the main problems connected with the program of studies; the junior high school; extra class-room activities; supervised study; methods of instruction.

Lectures, required readings, and reports.

5. THE TEACHING OF LITERATURE IN SECONDARY SCHOOLS. Miss SIMONS. G and C 8.30 G 310

In this course special consideration will be given to the principles guiding the selection of material, including the pupil's part in the choice, methods of instruction, and the equipment of the English classroom. Among the topics treated will be: oral reading, use of current periodicals, war poems, pamphlets and fiction, American literature, the development of appreciation, conscious imitation, dramatization, versification, and group activity. Pupils' work will be used as illustrative material. Reports on the literature on the reorganization of English in secondary schools will be required.

6. THE TEACHING OF ENGLISH COMPOSITION IN SECONDARY SCHOOLS. Miss SIMONS. G and C 9.30 G 310

The aims, materials and methods of teaching English Composition will be considered with reference to the English work in the grades and the new modes of attacking the problem in the secondary school. The course will include such topics as: English in the junior high school, co-operation with the pupil and his responsibility, oral work and voice improvement, the assignment and supervised study, the conference, the club plan and socialization, correction of written work and use of standard scales. Specimen compositions will be handled. Members of the class are requested to bring sets of compositions for such use. The work will include reports on special readings.

7. THE TEACHING OF HISTORY IN SECONDARY SCHOOLS. Mr. ISANOGLE. G and C 12.30 G 305

This course will review the development of history as a school subject, and compare history programs and methods of study. Special attention will be given to practical exercises in making charts, maps and outlines and the use of these with pictures, sources, reference reading, and local historic interests available in the average community for vitalizing the instruction. The use of interest in the industries and in contemporary events will be considered as a means of enriching the history course. The scope of the work will include history instruction in the grammar grades as well as in the secondary school, and provision will be made for individual interests.

Lectures, readings, and type lessons.

8. THE TEACHING OF LATIN IN SECONDARY SCHOOLS. Miss EBAUGH. G and C 10.30 G 108

This course will deal with the problems of Latin instruction in the four years of the high school, including a comparative study of methods, and the correlation of Latin with the other subjects of the curriculum. Attention will be given to the special literature on the subject and to the examination and criticism of text-books. Each student is requested to bring with him whatever high school Latin text-books he may have.

Lectures, practical demonstrations, and reports.

9. THE TEACHING OF ALGEBRA IN SECONDARY SCHOOLS. Mr. SMITH. G and C 11.30 G 103

This course will include a study of the educational values of algebra, its place in the curriculum, criteria to be used in choosing a text-book, the topics that should be taught in each year of the course, classroom methods, how a pupil should study the subject, the use of practice tests and standardized tests, and examinations and their marking. The reports of various committees and other literature on the subject will be used.

10. THE TEACHING OF GEOMETRY IN SECONDARY SCHOOLS. Mr. SMITH. G and C 9.30 G 103

The reasons for teaching geometry, a comparison of different methods, with practice in various types of class work, text-book criticism, teaching pupils to

study effectively, standardized tests, and the making and marking of examinations will be taken up.

The report of the National Committee of Fifteen and the most important current literature on the subject will be used.

Text: Smith, *Plane Geometry* (American Book Co.).

For other courses on teaching secondary subjects, see Biology 3, Fine Arts 4 and 6, Manual Training 3, and Vocational Education 1, 3, 5 and 7.

### *Elementary Education*

11. ELEMENTARY DEMONSTRATION SCHOOL. Miss BAMBERGER, Miss BROCHHAUSEN, and Miss WILLIAMSON. C 7.30 G 110

The purpose of this course is to furnish a practical study of the teaching process in elementary schools by means of systematic observation, conference reports and discussions. The school will include classes of the fourth, fifth, sixth, seventh, and eighth grades, and will be in session from 8.30 a. m. to 12.30 p. m. These classes are open for observation to those registered for this course. The observation of the teaching will begin Monday, July 15.

The requirement of those taking the course for credit is one conference (7.30 a. m.), and four observation hours per week, and two written reports.

12. ELEMENTARY SCHOOL SUPERVISION. Miss BAMBERGER. G and C 10.30 G 320

This study of the professional duties of the supervisor and the supervising principal will include as its chief topics principles of curriculum making, programs and lesson plans, criticism of instruction, and the improvement of teachers in service. Discussions will be based upon lesson plans in actual use and on observations in the Elementary Demonstration School.

13. SCHOOL MANAGEMENT AND SCHOOL LAW. Miss WILLIAMSON. C 9.30 G 320

This course is designed primarily to meet the needs of principals of town, village and rural schools, but will be adapted to meet the individual interests of assistant and rural teachers. It will include a study of the factors which limit the teaching process and are under the control of the school, the management of the several phases of the school's environment, efficiency in routine organization and the adjustment of programs, classes, and grades, the problems of school attendance and school progress of children, the organization of school clubs and improvement associations and school exhibits, and the State school law in its relation to the affairs of the school.

14. GRAMMAR GRADE METHODS. Miss BAMBERGER. C 8.30 G 320

This course will present the theory and practice of teaching the various subjects in the last four years of the elementary school. Topics to be considered will include the selection of subject matter, the method of instruction, and the management of children. Discussions will be based upon observation of lessons in the Elementary Demonstration School. Outside reading and written reports.

15. PRIMARY GRADE METHODS. Miss BROCHHAUSEN. C 8.30 G 315

By means of lectures and discussions this course will consider the problems peculiar to the first four years of the elementary school. The subject matter for each grade will be outlined, and effective methods for presenting the material will be given. The course will be developed in connection with observation in the Elementary Demonstration School. Outside reading and reports.

Text: Strayer, *A Brief Course in the Teaching Process* (Macmillan).

16. THE TEACHING OF ENGLISH IN THE ELEMENTARY SCHOOL. Miss BROCHHAUSEN. C 9.30 G 315

The course of lectures, reports, and discussions will be devoted to the teaching of English in the eight grades of the elementary school. Special emphasis will be placed upon the teaching of oral and written composition, the correlation between composition and literature, and the relation of spelling and grammar to composition. Systematic observation in the Elementary Demonstration School will form a part of the work of the course. Outside reading will be required.

Text: Leonard, *English Composition as a Social Problem* (Houghton Mifflin Co.)

17. STORY TELLING. Miss BROCHHAUSEN. C 11.30 G 315

This course will consist of discussions and practice in story telling. Such topics as the choice of the story, the preparation of the story, and the use to be made of the story will be discussed. Outside reading will be required.

Text: Shedlock, *The Art of Story Telling* (Appleton).

18. THE TEACHING OF ARITHMETIC AND GEOGRAPHY IN THE ELEMENTARY SCHOOL. Miss BAMBERGER. C 11.30 G 320

The first part of the course will deal with recent developments in the material and methods of teaching arithmetic in the eight grades of the elementary school. The fundamental processes, drill, and application of arithmetic to modern business will be considered.

The aims, materials, and methods of teaching geography in the elementary school will be considered in the second part of the course. The preparation of lesson plans will receive attention. The course throughout will include observations in the Elementary Demonstration School. Readings and written reports.

19. RURAL SCHOOL PROBLEMS. Miss WILLIAMSON. C 12.30 G 315

This study of the problems of the rural school will be conducted with reference to the needs of the individual teacher, and will include such topics as the purpose and use of text-books, lesson assignment and preparation, supervised study in the rural school, home lessons, seat work, and phases of subject-matter, with special exercises in the preparation of material helpful in teaching, such as schedules, outlines, lesson plans, and plans for term projects. Members of the class are requested to bring specimens of school work, class exercises, lesson plans and other material for co-operative use.

### ENGLISH COMPOSITION

1. THE SHORT STORY. Associate Professor RAMSAY. C 10.30 G 315

Study and practice in the story and related forms of imaginative composition. Representative stories and dramas will be used as material for analysis and imitation.

2. DESCRIPTION AND NARRATION. Mr. UHLER. C 8.30 G 100

The study and practice of those forms of prose writing that appeal primarily to the senses and the imagination. The work will include regular practice in writing and the analysis of selected models.

3. USAGE, STRUCTURE, AND STYLE. Mr. UHLER. C 12.30 G 100

In this course attention will be paid to the conventions of written English and to the principles of clear and effective writing.

### ENGLISH LITERATURE

1. RECENT ENGLISH LITERATURE. Associate Professor RAMSAY. G and C 9.30 G 216

A study of recent English and American poetry, drama, and fiction as reflecting the conflict between the spirits of imperialism, nationalism, and regionalism which preceded and prepared the way for the present world war.

Lectures and reports, with a large amount of outside reading.

2. THE ELIZABETHAN DRAMA. Associate Professor RAMSAY. G and C 12.30 G 212

A study of the development of English drama from the opening of Elizabeth's reign down to the death of Shakspeare, as illustrated in the work of Shakspeare's precursors and contemporaries.

Text: *The Chief Elizabethan Dramatists*, ed. W. A. Neilson (Houghton Mifflin Co.).

3. HISTORY OF ENGLISH LITERATURE, 1600-1775. Mr. UHLER. C 11.30 G 100

A survey of the literature of the seventeenth and eighteenth centuries. Special

attention will be paid to the English Bible, Milton, Addison, Swift, Pope, Gray and Goldsmith.

Text: *Century Readings in English Literature*, ed. Cunliffe, Pyre and Young. (Century Co.).

## FINE ARTS

The courses in Fine Arts are given in co-operation with the Maryland Institute, of Baltimore, and constitute the third summer session of its School of Art and Design. The instruction will be given at Homewood, where the special facilities for out-of-door work in the practical courses will be constantly used. Students matriculated as candidates for a baccalaureate degree may offer these courses, as indicated, for credit. Registration in these courses is subject to the approval of Miss STEWART.

### 1. PORTRAIT PAINTING. Mr. ROSEN. C 9.30-11.20 G 113

In this course an opportunity is afforded advanced students to draw and paint from the model for composition, or head and figure painting in oil, or charcoal drawing. The work in this course leads to magazine illustration, mural painting, and portraiture.

### 2. LANDSCAPE AND STILL-LIFE IN OIL PAINTING. Mr. ROSEN. C 11.30-1.20 G 113

This course is designed for students in Fine Arts who desire drawing in color to lead to more advanced work, or to specialize in out-of-door painting.

The abundant variety of views about the University grounds and nearby points of interest will be utilized on all pleasant days; otherwise, the study will consist of still-life or flowers indoors.

### 3. PRINCIPLES OF DESIGN. Mr. SAX. C 11.30-1.20 M 116

The principles that underlie all applications of design will form the subject matter of this course. They will be studied first in the abstract, and then in nature and historical ornament from the point of view of their application. The course will include studio work, lectures, and reports on required reading.

This course is open to those who have completed the first year's work at the Maryland Institute, or who have had equivalent training, and also to those taking the Theory and Practice of Teaching Art.

### 4. THEORY AND PRACTICE OF TEACHING ART. Mr. SAX. C 9.30-11.20 M 119

This course deals with practical art problems of the classroom in both elementary and secondary schools. It is designed to meet the needs of those who are preparing to become supervisors of art. It will also give special aid to grade teachers who desire further training in teaching art. A class of pupils will be available for class practice in teaching. Lectures, papers, and reading, and practice teaching.

### 5. ELEMENTARY SCHOOL COLOR WORK. Miss STEWART. C 9.30-11.20 S

This course provides practice with color work throughout the grades in the elementary school. The objects used will be flowers and still life of familiar forms, with out-of-door sketching.

### 6. DRAWING. Miss STEWART. C 11.30-1.20 S

This course in drawing is designed for those who wish to teach drawing and desire to add to their methods of instruction.

The regular tuition fee for the courses in Fine Arts is \$10, upon payment of which students may elect from one to four hours of instruction. Students regularly registering in courses in other departments are permitted to elect one or two hours of work in this department upon the payment of an additional fee of \$5.

Changes in the schedule may be made to meet the convenience of a majority of the students. Academic credit will be allowed only for the satisfactory completion of a double-period course.

## FRENCH

## 1. MODERN FRENCH DRAMA. Dr. HAVENS. G and C 12.30 G 205

This course is intended for students who have considerable facility in reading modern French. The minimum of preparation for entrance is the work outlined for Course 2. Lectures in French, collateral reading, composition, and reports in French. Advanced students will do supplementary work.

Texts: Dumas-fils, *Le Demi-Monde*; Augier, *Le Gendre de M. Poirier* (Holt); Becque, *Les Corbeaux*; Coppee, *Pour la Couronne* (Holt); Rostand, *Cyrano de Bergerac* (Holt); Brieux, *La Robe rouge*; Hervieu, *La Course du Flambeau*; Mirabeau, *Les Affaires sont les Affaires*; Lavedan, *Le Duel* (Holt); Maeterlinck, *L'Oiseau bleu*.

## 2. PRACTICAL FRENCH. Dr. HAVENS. C 11.30 G 205

This course is intended for students who have had the equivalent of French 3. The exercises of the class will be conducted in French.

Texts: Talbot, *Le Français et sa patrie* (Sanborn); Maupassant, *Contes choisis*, ed. Brush (Holt); Daudet, *Tartarin de Tarascon*, ed. Cerf (Ginn); Talbot, *French Composition* (Sanborn).

## 3. ELEMENTARY FRENCH. Dr. STEWART. C 10.30 G 205

This course is planned for students beginning the study of French. The work will consist of a study of the essentials of grammar, drill in pronunciation, composition, and careful reading of texts.

Texts: Aldrich and Foster, *Foundations of French* (Ginn); Malot, *Sans Famille*, ed. Spiers (Heath); About, *La Mère de la Marquise*, ed. Brush (Heath).

NOTE.—Satisfactory completion of this course will be counted as partial fulfillment of the entrance requirements in French.

## GERMAN

## 1. GERMAN LITERATURE FROM 1870 TO 1900. Associate Professor ROULSTON. G 8.30 G 103

In this course particular attention will be paid to the development of the drama and the *novelle* during this period. The influences of the founding of the Empire and of the various foreign literatures upon these two types will be especially studied.

## 2. ADVANCED PROSE COMPOSITION AND PRACTICAL EXERCISES. Associate Professor ROULSTON. G and C 9.30 G 312

Practice in translating from English and in writing original themes will be furnished by this course. Especial attention will be devoted to the study of idioms and to the differences between the spoken and the written language.

## 3. (a) READINGS IN GERMAN. Associate Professor ROULSTON. C 10.30 G 312

The nature of this course will depend upon the previous preparation of the students.

or,

## (b) ELEMENTARY GERMAN. Associate Professor ROULSTON.

A thorough review of the grammar will be given. This course will especially meet the needs of those who wish such a review while following more advanced courses.

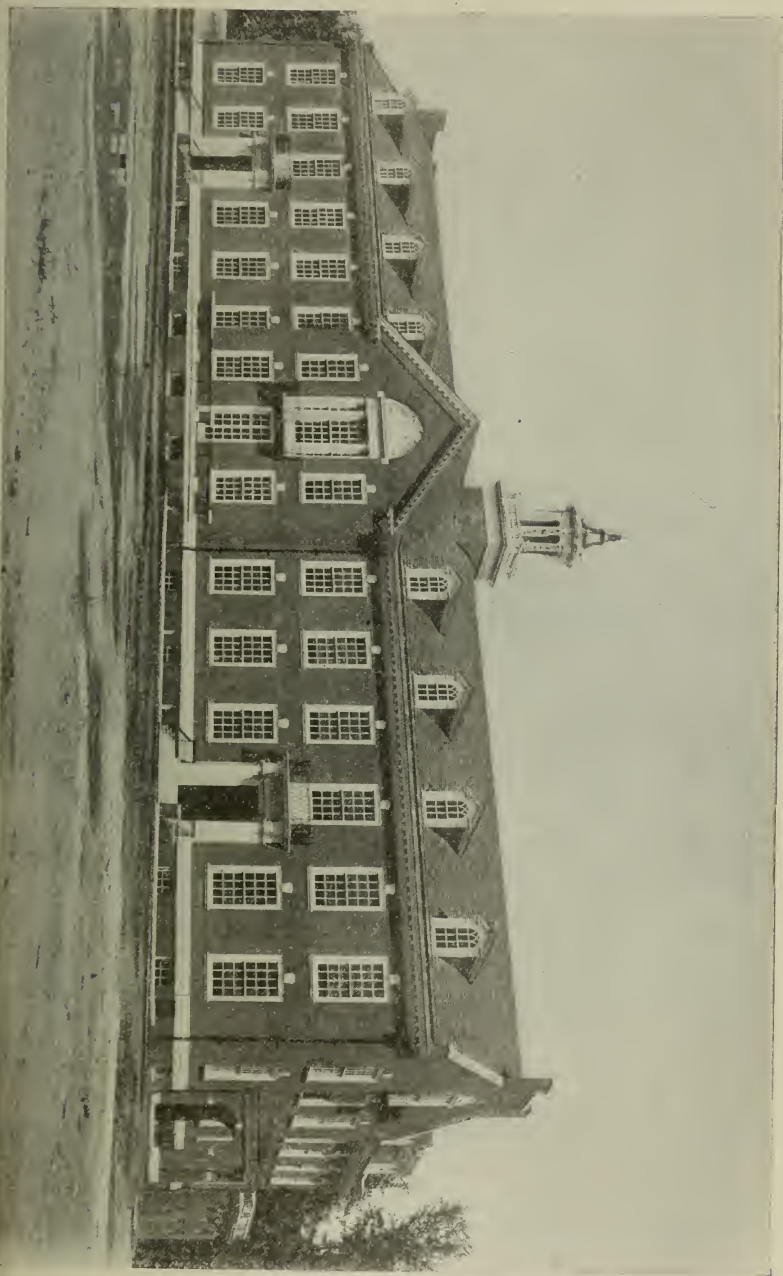
NOTE.—Texts will be announced at the opening of the session, a supply of books being available at the University Book-Store.

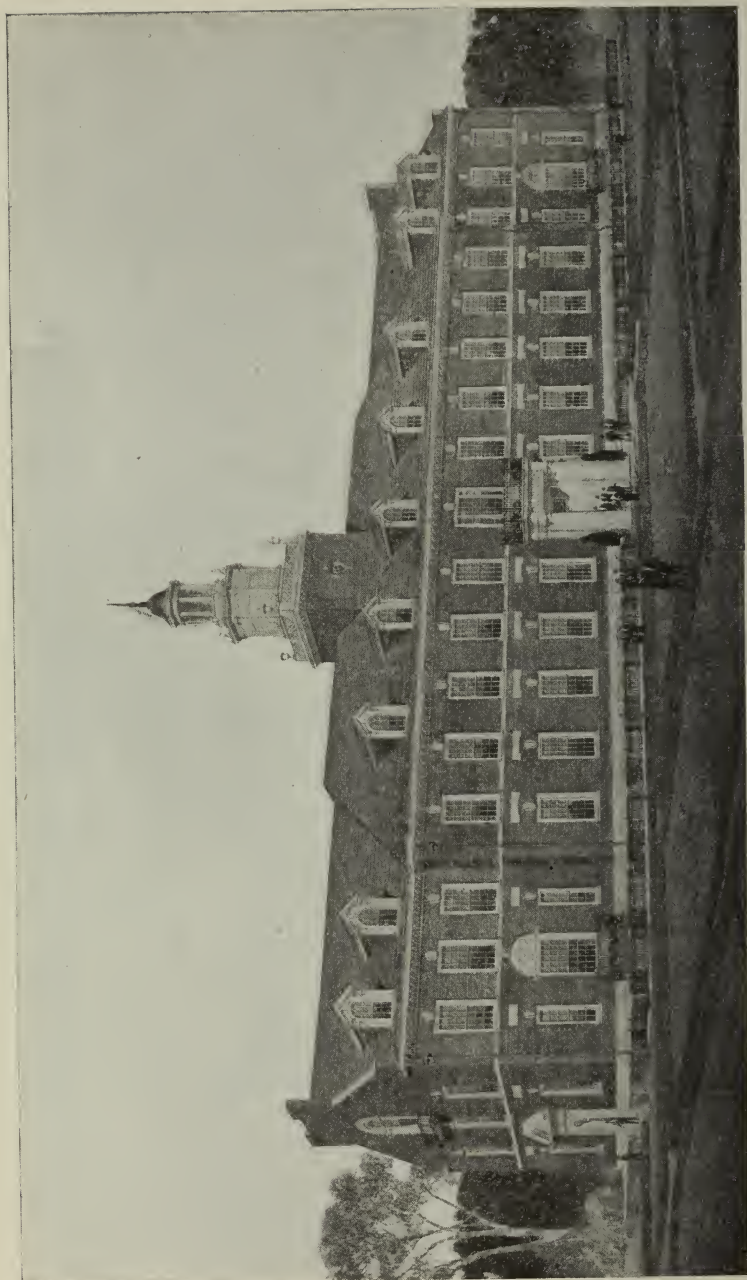
## HISTORY

## 1. AMERICAN HISTORY SINCE 1865. Professor LATANÉ. G 11.30 G 305

A seminary for advanced students on some of the more important problems that have arisen in American history since the Civil War.







CIVIL ENGINEERING BUILDING

2. **LATIN-AMERICAN HISTORY AND DIPLOMACY.** Professor LATANÉ.  
G and C 10.30 G 305

A review of the Spanish colonial system, the wars of liberation, the recognition of the Spanish-American republics, and their subsequent relations with the rest of the world, particularly with the United States.

3. **CONTEMPORARY EUROPEAN HISTORY.** Professor LATANÉ. C  
8.30 G 305

A study of the antecedents of the great war—the expansion of Europe, commercial rivalries, alliances, ententes, military and naval systems. Each student is requested to order in advance one or both of the following books: Herbert Adams Gibbons, *The New Map of Europe* (Century Co., 1914); Arthur Bullard, *The Diplomacy of the Great War* (Macmillan Co., 1916).

4. **GREEK HISTORY.** Associate Professor EBELING. C 9.30 G 108

This course will give a general survey of Greek history down to the conquest of Alexander. Care will be taken to follow the development of Greek political and social institutions. Library readings will be available. Lectures, reports, and discussions.

Text: Bury, *Student's History of Greece* (Macmillan).

## HOME ECONOMICS

1. **NUTRITION AND WAR-TIME COOKERY.** Miss SHAFFER. C 11.30-  
1.20 M 114

This course offers a special study of the functions and nutritive value of foods, the food requirements of the members of the family group, and the cost of the family dietary, based on present war conditions. The laboratory work will include the preparation of the meals planned.

Pre-requisite: Elementary cookery. Parallel: Chemistry 1 or 2.

Laboratory fee: \$5.00.

2. **HOUSEHOLD ECONOMICS AND MANAGEMENT.** Miss SHAFFER. C  
10.30 M 114

The application of the principles of economics to the problems of the housewife will form the basis of this course. Scientific management, family budget and household accounts will be included.

3. **TEXTILES AND CLOTHING.** Miss SHAFFER. C 8.30-10.20 M 121

The selection and buying of household textiles and the care, cleaning, remodeling and repair of the different articles of clothing will be given in this course. The economic aspects will be considered with reference to the textile situation presented by present war conditions. Students will furnish their own materials.

Pre-requisite or Parallel: Chemistry 2.

For courses on teaching Home Economics and its vocational application, see Vocational Education 3, 4, 5 and 6.

NOTE.—Under a recently adopted rule, graduates of the Baltimore Female High Schools, or of other schools of the same standard, who have collegiate credits in domestic science and other subjects aggregating sixty points, are eligible to take the examination for teachers of cooking in the Baltimore city schools.

## LATIN

**LATIN LITERATURE, FROM EARLIEST BEGINNINGS TO THE END OF THE SECOND CENTURY A. D.** Associate Professor EBELING. G  
and C 11.30 G 108

This course is designed to give a comprehensive view of Latin literature at its best, and will consist of lectures and the reading of selected specimens of both prose and verse. Special attention will be directed to the origin and development of the several departments of Latin literature. The greater part of the reading

will be done in translation, but short passages in the original will be assigned from time to time. Facility in reading Latin will not be a pre-requisite. Advanced students will do supplementary work.

Texts: Mackail, *Latin Literature* (Scribner's); Laing, *Masterpieces of Latin Literature* (Houghton Mifflin Co.); *Oxford Book of Latin Verse* (Clarendon Press).

See Education 8 for a course on the Teaching of Latin in Secondary Schools.

## MANUAL TRAINING

1. BENCH WORK IN WOOD AND MECHANICAL DRAWING. Mr. GAITHER. C 8.30-10.20 M .

This course includes the use of tools and bench work in wood in the upper elementary and lower secondary grades, the use of drawing instruments and making simple working drawings, outlining courses, planning equipment and methods of individual and class exercise. Advanced construction in both hard and soft woods will be available for advanced students. Special attention will be paid to the needs of those who desire to prepare themselves for teaching the vocational applications of the subject.

Laboratory fee: \$3.50.

2. ELEMENTARY MANUAL TRAINING. Mr. GAITHER. C 11.30 M

This course includes hand-work processes in paper, cardboard, weaving, raffia, basketry, bookbinding and woodwork suitable for the first six years of the elementary schools, and in materials suitable for rural schools.

Those desiring training as playground and recreation leaders will find this course adapted to their needs.

Laboratory fee: \$2.50.

3. THE THEORY AND PRACTICE OF TEACHING MANUAL ARTS. Mr. GAITHER. C 10.30 M

This course is designed to meet the needs of supervisors and teachers of Manual Arts, and will include study of aims and methods of manual training in elementary and secondary schools, planning courses, equipment of manual arts rooms, selection of materials, cost, and the special problems of supervision. Persons who have had practical vocational training only may qualify for admission to this course.

Lectures, assigned readings, and reports.

NOTE.—Students satisfactorily completing Courses 1 and 3 will be eligible to take the examination for manual training teachers in Baltimore city schools, provided they are graduates of secondary schools equal in entrance requirements to the secondary schools of Baltimore.

## MATHEMATICS

1. PROJECTIVE GEOMETRY. Miss COHEN. G 10.30 G 2

The subject will be treated from a geometric, rather than from an algebraic, point of view.

Pre-requisite: Analytic Geometry.

2. ANALYTIC GEOMETRY. Miss COHEN. C 11.30 G 2

A study of the straight line and the conic sections.

3. TRIGONOMETRY. Miss COHEN. 12.30 G 2

In case of sufficient demand algebra (b) will be substituted for this course.

## MUSIC

The Peabody Conservatory of Music of Baltimore is announcing its summer session of six weeks, July 8 to August 17. Its program includes courses in Singing, Piano, Organ, Violin, Composition, Harmony, Form and Analysis, Interpretation, Piano Pedagogy, Theory, Ear Training, and Musical Literature.



As in former years, candidates for the degree of Bachelor of Arts or Science may offer for credit the courses in Harmony and in Form and Analysis, when officially reported by the Conservatory as having been satisfactorily completed.

Circulars containing full particulars will be sent on application to either the University or the Conservatory.

## PHILOSOPHY

1. THE THEORY OF ETHICS. Dr. SLONIMSKY. G and C 11.30  
G 117

The methods and types of ethical theory as they have appeared in the past will be reviewed; a psychology of the moral experience will be presented; and on the basis of that the attempt will be made to work out an ethical theory from a revised standpoint.

2. PHILOSOPHY OF RELIGION. Dr. SLONIMSKY. G and C 9.30  
G 117

After a review of the origin and growth of religion, and of the psychology of religious phenomena, the attempt will be made to define the relation of religion to philosophy and the place it should hold in our life.

## POLITICS

1. PROBLEMS IN INTERNATIONAL LAW. Dr. MILLSPAUGH. G 9.30  
G 324

A critical study of the fundamental concepts of international law and international relations, the relation of international law to municipal law, sovereignty, jurisdiction, treaties, the practice of diplomacy, and the methods and limitations of arbitration. Lectures, readings, and reports.

2. THE AMERICAN ELECTORATE. Dr. MILLSPAUGH. C 8.30 G 324

This course will survey the recent tendencies of popular government and practical politics; public opinion, civic organization, the suffrage, political parties, direct primaries, presidential nominations, elections, ballot reform, the civil service, the short ballot, the initiative and referendum, the recall, and independent voting.

Text: Ray, *An Introduction to Political Parties and Practical Politics*, revised edition (Scribners).

## PSYCHOLOGY

- INTRODUCTION TO GENERAL PSYCHOLOGY. Dr. JOHNSON. C 8.30  
G 401

This course is intended for those who have had no training in psychology, or who wish to review the elementary work. The essential facts and principles of analytical and functional psychology will be outlined in lectures, with demonstrations, supplemented by assigned readings.

## RECREATION

1. RECREATIONAL LEADERSHIP FOR BOYS. Mr. BRADLEY and Assistants. C 5-7 G 311

This course is given in co-operation with the Baltimore Council and the Department of Education of the National Council, Boy Scouts of America, and is designed to provide instruction and practice for those desiring to secure training as recreational leaders.

The topics will include the history and principles of scouting, the characteristics of adolescent boyhood, the content and organization of the boy scout program as first aid, signalling, scoutcraft, campcraft and games, and the community and civic aspects of scouting. The methods of practical application will be illustrated by demonstrations and field work with scout troops.

Lectures, required readings, reports and field work.



Texts: Richardson and Loomis, *The Boy Scout Movement* (Scribner); *Handbook for Boys* and *Scoutmaster's Handbook* (Boy Scouts of America).

Tuition fee: \$5.00, for students registering in this course alone.

## 2. RECREATIONAL LEADERSHIP FOR GIRLS. Miss HOUGH and Assistants. C 5-7 G 314

This course, given in co-operation with the National Headquarters Girl Scouts, is designed to offer instruction and practice for those interested in recreational leadership for girls or who desire to secure training as captains of girl scout troops. The lectures will present the history and organization of the scout movement, the characteristics of adolescent girlhood, the principles and practice of scouting based on the program of activities, as first aid, signalling, games, woodcraft, camp organization and management, and its social and civic values. The course will include a large amount of practical work, demonstrations and field programs to illustrate the use of the Handbook and Manual and the organization and management of girl scout troops.

Lectures, required readings, reports and field work.

Tuition fee: \$5.00, for students registering in this course alone.

## SEMITICS

### 1. (a) ELEMENTARY HEBREW. Dr. BLAKE. G and C 9.30 G 116

The essential principles of Hebrew grammar, and the reading of easy selections in Hebrew.

Text: Davidson, *Introductory Hebrew Grammar*, 19th ed. (T. and T. Clark, Edinburgh).

or,

### (b) BIBLICAL ARAMAIC. Dr. BLAKE. G and C

Grammar of the Aramaic idiom of the books of Ezra and Daniel, systematic study of the vocabulary, and interpretation of the Aramaic passages.

or,

### (c) ELEMENTARY ASSYRIAN. Dr. BLAKE. G

Study of the Assyrian cuneiform characters, the elements of Assyrian grammar, and the interpretation of selected cuneiform texts. The aim of the course is to enable the student to continue cuneiform studies without a teacher.

### 2. (a) HISTORY OF THE ANCIENT EAST. Dr. BLAKE. G and C 8.30 G 117

The history of Egypt, Babylonia, Assyria, Persia, Israel, Judah, and the minor nations of Western Asia (Elam, Mitani, the Hittites, Urartu, Lydia, Phoenicia, Damascus), preceded by an account of the Prehistoric Period. Lectures and readings from standard works.

or,

### (b) LITERATURE OF THE OLD TESTAMENT IN THE LIGHT OF MODERN CRITICAL THEORIES. Dr. BLAKE. G and C

This course will include the history of the text of the Old Testament and the formation of the canon, the outlines of the documentary theory, and an account of the date, authorship, historical setting, purpose, etc., of the individual books of the Old Testament, supplemented by the reading and explanation of selected chapters on the basis of the English Bible.

Text: Moore, *The Literature of the Old Testament* (Holt).

NOTE.—No knowledge of Hebrew or of any other Oriental language is required for the courses 2a or 2b.

There are several copies of the text-books required in 1b and 1c available for the use of students in the University Library.

## SPANISH

### 1. SPANISH LITERATURE. Dr. STEWART. G and C 9.30 G 206

This course is intended for students who have considerable facility in reading

Spanish. Lectures on Spanish literature and work in composition. Advanced students will do supplementary work.

Text: Alarcón, *El Capitán Veneno* (Heath); Perez Galdós, *Dona Perfecta* (Ginn); Valdez, *Jose* (Heath); Calderon, *La Vida es Sueno* (American Book Co.); Cervantes, *Don Quixote* (Heath).

## 2. PRACTICAL SPANISH. Dr. STEWART. C 8.30 G 206

This course in written and spoken Spanish is intended for those who have had the equivalent of Spanish 3. Spanish will be used exclusively in the class-room. Attention will be given to such practical uses of the language as will meet the individual needs of the students.

Texts: Umphrey, *Spanish Prose Composition* (American Book Co.); Bonilla, *Spanish Daily Life* (Nelson).

## 3. ELEMENTARY SPANISH. Dr. HAVENS. G 10.30 G 100

This course will include the essentials of Spanish grammar and translation from elementary texts. Special attention will be given to pronunciation and oral practice.

Texts: Espinosa and Allen, *Elementary Spanish Grammar* (American Book Co.); Hills, *Spanish Tales for Beginners* (Holt).

# VOCATIONAL EDUCATION

The following courses in Vocational Education are offered in co-operation with the Maryland State College of Agriculture. They are designed to prepare teachers of agriculture, home economics, and trades and industry in the secondary schools of the type encouraged by the Smith-Hughes Act and in accordance with the requirements of the Maryland State Board of Education. These courses are open only to teachers of agriculture, home economics, and trades and industry, and to those who may be able to qualify as teachers in one of the three fields after having had the work of the courses, registrations being subject to the approval of Professor COTTERMAN.

## 1. THE TEACHING OF VOCATIONAL AGRICULTURE. Professor COTTERMAN. C 10.30 G 10

A study of the teaching of secondary vocational agricultural subjects, stressing particularly the purposes of such instruction, the selection, organization and presentation of subject matter, the organization of project activities, equipment, textbooks, and community relationships.

## 2. SPECIAL PROBLEMS IN AGRICULTURE. Professor COTTERMAN. C 2.30-4.20 G 10

This course is designed to meet the needs of individual teachers, and offers a special study of the agricultural resources of various regions of the State with reference to the type of education that should be developed in particular secondary schools. The subjects of poultry production, truck gardening, dairying, agronomy, soils, farm management, and other community specialties will be selected and treated in light of the problems of the detailed content of school courses.

## 3. THE TEACHING OF FOODS, NUTRITION AND SANITATION. C 3.30 M 114

This course will deal with the organization and curriculum of those subjects in secondary vocational schools, the selection and organization of subject matter of such courses, equipment, text-books, and lesson plans.

## 4. SPECIAL PROBLEMS IN FOOD PREPARATION AND DIETETICS. C 8.30-10.20 M 114

This course will deal with the selection, organization, and laboratory procedure involved in the presentation of selected topics in food preparation and dietetics as adapted to the needs of vocational schools and individual teachers.

5. THE TEACHING OF CLOTHING, TEXTILES AND HOUSE FURNISHING.  
C 2.30 M 121

This course will deal with the problems of the organization of instruction in clothing, textiles and house furnishing, the arrangement of courses, equipment, text-books, and lesson plans.

6. SPECIAL PROBLEMS IN DRESSMAKING. C 11.30-1.20 M 121

This course will include a consideration of quality, suitability, and cost of materials as adapted to the techniques involved in dressmaking, adaptation of art principles in selection of designs, instruction and practice in methods of construction of selected projects in dressmaking. Students will furnish their own materials for special projects.

7. PRINCIPLES OF INDUSTRIAL EDUCATION AND MANAGEMENT OF  
INDUSTRIAL CLASSES. Professor EMERSON. C 12.30 G 10

A study of trade and industrial education, stressing particularly types of schools, courses of study, lesson plans, shop methods, management, discipline, and co-operative plans.

8. SPECIAL PROBLEMS IN TRADE AND INDUSTRIAL EDUCATION.  
Professor EMERSON. C 2.30-4.20 G 2

Special survey of trade and industrial conditions in Maryland, particularly in the City of Baltimore, with reference to the needs of vocational schools and individual teachers.



THE BOTANICAL GARDEN

## SCHEDULE

7.30—8.20

Education 11 (Conference)

8.30—9.20

Economics 2  
Education 5  
Education 14  
Education 15  
English Composition 2  
German 1  
History 3  
Home Economics 3 (8.30—10.20)  
Manual Training 1 (8.30—10.20)  
Politics 2  
Psychology  
Semitics 2  
Spanish 2  
Vocational Education 4 (8.30—10.20)

9.30—10.20

Biology 1  
Education 1  
Education 6  
Education 10  
Education 13  
Education 16  
English Literature 1  
Fine Arts 1 (9.30—11.20)  
Fine Arts 4 (9.30—11.20)  
Fine Arts 5 (9.30—11.20)  
German 2  
History 4  
Home Economics 3 (continued)  
Manual Training 1 (continued)  
Philosophy 2  
Politics 1  
Semitics 1  
Spanish 1  
Vocational Education 4 (continued)

10.30—11.20

Chemistry 1  
Economics 1  
Education 3  
Education 8  
Education 12  
English Composition 1  
Fine Arts 1 (continued)  
Fine Arts 4 (continued)  
Fine Arts 5 (continued)  
French 3  
German 3  
History 2  
Home Economics 2  
Manual Training 3  
Mathematics 1  
Spanish 3  
Vocational Education 1

11.30—12.20

Biology 3  
Chemistry 3  
Economics 3  
Education 4  
Education 9  
Education 17  
Education 18  
English Literature 3  
Fine Arts 2 (11.30—1.20)  
Fine Arts 3 (11.30—1.20)  
Fine Arts 6 (11.30—1.20)  
French 2  
History 1  
Home Economics 1 (11.30—1.20)  
Latin Literature  
Manual Training 2  
Mathematics 2  
Philosophy 1  
Vocational Education 6 (11.30—1.20)

12.30—1.20

Biology 2  
Education 2  
Education 7  
Education 19  
English Composition 3  
English Literature 2  
Fine Arts 2 (continued)  
Fine Arts 3 (continued)  
Fine Arts 6 (continued)  
French 1  
Home Economics 1 (continued)  
Mathematics 3  
Vocational Education 6 (continued)  
Vocational Education 7

1.30—2.20

Chemistry 2

2.30—3.20

Vocational Education 5

3.30—4.20

Vocational Education 3

2.30—4.20

Biological Laboratory  
Chemical Laboratory  
Vocational Education 2  
Vocational Education 8

5.00—7.00

Recreation 1  
Recreation 2

8.30—12.30: Elementary Demonstration School. [Classes will be open for observation Monday, July 15.]

# THE JOHNS HOPKINS UNIVERSITY

BALTIMORE

FOUNDED 1876

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A FACULTY OF 341 PROFESSORS, ASSOCIATES, INSTRUCTORS AND LECTURERS

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WITH A. M., A. B. AND S. B. CREDITS

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(Not offered in 1918)

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EVENING COURSES IN BUSINESS ECONOMICS AND IN  
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THE JOHNS HOPKINS PRESS PUBLICATIONS

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MARYLAND GEOLOGICAL SURVEY, MARYLAND WEATHER SERVICE,  
MARYLAND FORESTRY BUREAU



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New Series, 1919  
No. 3

Whole Number 313

THE  
JOHNS HOPKINS  
UNIVERSITY CIRCULAR

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SUMMER COURSES  
JULY 8—AUGUST 15  
1919

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July 8, Tuesday—8.30 a. m., Instruction in the Summer Courses begins.

August 15, Friday—Close of Summer Courses.

October 6, Monday—College Courses for Teachers, eleventh year begins.

 *Registration should be made prior to July 8.*

# THE JOHNS HOPKINS UNIVERSITY

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## SUMMER COURSES 1919

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### OFFICERS OF ADMINISTRATION

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EDWARD F. BUCHNER, PH. D.  
*Director of the Summer Courses*

THOMAS R. BALL,  
*Registrar*

W. GRAHAM BOYCE,  
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### INSTRUCTORS

FLORENCE E. BAMBERGER, A. M. *Elementary Education*  
Associate in Education.

ANNA BROCHHAUSEN, A. B. *Elementary Education*  
Supervising Principal, Indianapolis Public Schools.

EDWARD F. BUCHNER, PH. D. *Educational Administration*  
Director; Professor of Education.

JAMES M. CALLAHAN, PH. D. *History*  
Professor of History and Political Science, University of West Virginia.

TERESA COHEN, PH. D. *Mathematics*  
Alice Freeman Palmer Fellow, Wellesley College.

VICTOR DULAC, A. M. *French*

KNIGHT DUNLAP, PH. D. *Psychology*  
Professor of Experimental Psychology.

HERMAN L. EBELING, PH. D. *History and Latin*  
Associate Professor of Greek and Instructor in Latin, Goucher College.

HOWARD E. ENDERS, PH. D. *Biology*  
Professor of Zoology and Head of General Biology, Purdue University.

- GEORGE M. GAITHER *Manual Training*  
Supervisor of Manual Training, Baltimore Public Schools.
- J. ELLIOTT GILPIN, PH. D. *Chemistry*  
Collegiate Professor of Chemistry.
- ANABEL E. HARTMAN, A. M. *English*  
Instructor in English, Eastern High School, Baltimore.
- ALVEY M. ISANOGL, A. B. *Secondary Education*  
Instructor, Thurmont High School, Maryland.
- BUFORD J. JOHNSON, PH. D. *Education and Psychology*  
Bureau of Educational Experiments, New York.
- EDWIN J. KOHL, S. M. *Biology*  
Instructor in Biology, Purdue University.
- LYDIA MARTIN, R. N. *Red Cross Home Nursing*  
Chief Class Instructor, Baltimore Chapter, American Red Cross.
- JOHN M. MATHEWS, PH. D. *Politics*  
Associate Professor of Political Science, University of Illinois.
- J. BROADUS MITCHELL, PH. D. *Economics*  
Instructor in Political Economy.
- THEODORE H. POND *Fine Arts*  
Instructor, Maryland Institute of Art.
- ROBERT L. RAMSAY, PH. D. *English*  
Associate Professor of English, University of Missouri.
- HENRY A. ROSEN *Fine Arts*  
Instructor, Maryland Institute of Art.
- ROBERT B. ROULSTON, PH. D. *German*  
Associate Professor of German.
- GILMER SILER, A. M. *Secondary Education*  
Assistant Superintendent of Schools, Atlanta, Ga.
- SARAH E. SIMONS, A. M. *Secondary Education*  
Head of Department of English, High Schools, The District of Columbia.
- I. JEWELL SIMPSON, A. B. *Elementary Education*  
Supervisor of Elementary Schools, Carroll County, Maryland.
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Associate in Philosophy.
- EDITH H. STEWART *Fine Arts*  
Instructor, Maryland Institute of Art.
- WINIFRED STURDEVANT, A. B. *French*
- JOHN E. UHLER, A. B. *English*  
Assistant in English; Educational Director, United States Hospital No. 7.

DAVID E. WEGLEIN, PH. D.

Secondary Education

Instructor in Education; Principal of Western High School, Baltimore.

ALFRED M. WITHERS, A. M.

Spanish

Associate Professor of Romance Languages, Southern Methodist University,  
Dallas, Texas.

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Problems in Americanization

DEMONSTRATION SCHOOL

GRADE IV	M 109
GRADE V	M 121
GRADE VI	G 9
GRADE VII	G 10
GRADE VIII	G 112



## GENERAL STATEMENT

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The ninth year of the Summer Courses of the Johns Hopkins University will open on Tuesday, July 8, and continue until Friday, August 15, inclusive. Exercises in each subject will be held every week-day, Monday to Friday. In addition, on *Saturday, July 12, classes will meet as usual*. Each course will consist of thirty class exercises or their equivalent. In the sciences laboratory work will be additional. Examinations will be held at the close of the session.

As the summer courses are authorized by the Trustees and their credits fixed by the various Faculties, they are an integral part of the work of the University. All the resources of the institution essential to their conduct are placed at the disposal of the students.

The principal object of the University in making provision for the summer work is to furnish instruction to teachers in all grades of schools, and to other persons who seek opportunities for instruction, with or without reference to an academic degree. Some courses offered are designed to meet the needs of graduate and collegiate students who wish to advance their standing or to make up deficiencies; others, to enable non-matriculated students to absolve in part the entrance requirements. Also courses in some subjects not given in the regular session are offered to meet special needs of schools.

## CHARACTER OF INSTRUCTION

The courses maintain the standard of instruction which characterizes the work of the regular session in the subjects representing graduate and collegiate departments, as well as in those introduced to meet the special needs of teachers. In addition to the regular class exercises, instructors hold daily conferences, in which the work of the courses is supplemented and adapted to the particular needs of individuals.

## DEMONSTRATION AND OBSERVATION SCHOOLS

In coöperation with the Baltimore Board of School Commissioners a free elementary school, including the fourth, fifth, sixth, seventh and eighth grades, will be conducted as a means of affording illustrative material for the courses in elementary education. This will be

one of the city vacation schools in which pupils will be given an opportunity to make up deficiencies and to secure promotion at the beginning of the next school year.

Four other city elementary and four secondary vacation schools, including possibly a vocational school, will be open during the session and available for observation in connection with the courses in elementary and secondary education.

#### SELECTION OF COURSES

Candidates for advanced degrees should arrange their programs in consultation with the departments in which their principal subjects lie. New students expecting to become candidates should present their cases to the Director.

Candidates for a baccalaureate degree should consult with the College Dean or the Director prior to the opening of the session, in the selection of courses that will meet requirements for the degree.

Students seeking credit that will enable them to meet in part or in full the requirements of state and city certificates, should select their academic and professional courses in accordance with the regulations in force under the Board of Education or of Examiners to whom their record will be submitted for acceptance.

#### ACADEMIC CREDIT

Graduate courses, leading to the degree of Master of Arts, will be credited by the respective departments in accordance with the rule of the Board of University Studies: the requirement of one of the two years of residence for this degree may be met by attendance and study in three sessions of the Summer Courses. These courses are designated by *G*.

Students matriculated as candidates for any of the baccalaureate degrees will receive credit for the satisfactory completion of those courses designated by *C*. In general the same credit is given per hour as in the regular college courses, *e. g.*, a lecture course of thirty hours has a credit of two "points," or one-third of the credit for a course of three hours per week through the college year. Provided, however, the student follows but two courses, an additional credit may be given. The exact amount of additional credit in each course is determined by the instructor according to the work accomplished, subject to the approval of the Director, but in no case will an additional credit to exceed fifty per cent. be given, nor can a total credit of more than eight points be allowed a student in one summer session.

Students not matriculated in the University will receive certificates indicating the amount of work satisfactorily performed. These certificates will indicate the value of the work done in each course, and will be accepted by State, County, and City Superintendents and Boards of Examiners in the extension or renewal of teachers' certificates, according to law.

#### ADMISSION AND ATTENDANCE

There are no formal examinations for admission. Students, both men and women, will be admitted to such courses as they are found qualified by the respective instructors to pursue with advantage.

The session will open promptly on July 8, carrying out the schedule provided on page 3 of cover. *Friday, July 4*, being a legal holiday, *all University buildings will be closed*. The Registrar's office (219 Gilman Hall) will be open for registration on Saturday, July 5, Monday, July 7, and Tuesday, July 8, from 9 a. m. to 5 p. m. After July 10, admission to each course will be restricted to registered students. With the consent of the Director, students may make changes in their courses, which must be reported *in person* to the Registrar, up to and including July 10. After this date no change of courses will be permitted.

All fees, including both tuition and special laboratory fees, must be paid to the Treasurer *immediately* as an item in registration.

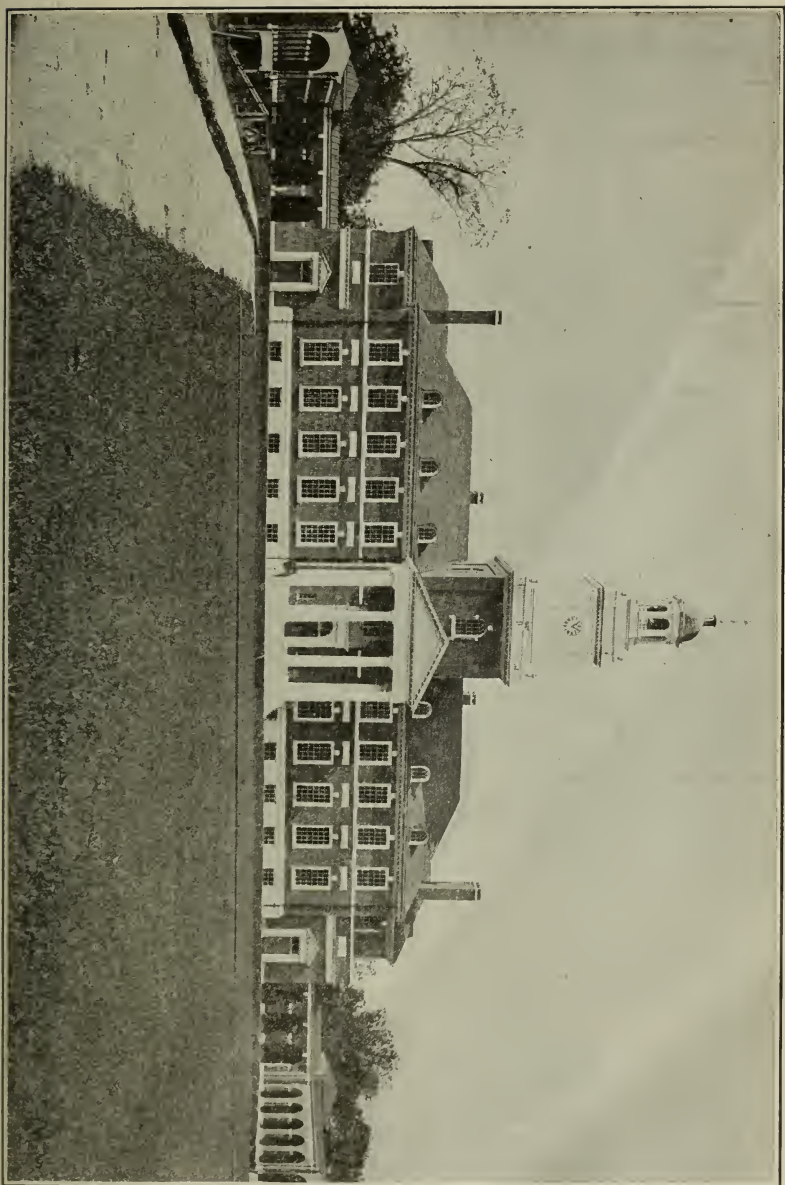
#### NEW LOCATION

The University is occupying its new buildings at Homewood, a tract of one hundred and twenty acres in the northern part of Baltimore, where the session will be held. Entrances are on North Charles street at 32d and 34th streets. Footpath entrances are through Wyman Park, which lies on the southern and western sides of the grounds.

Homewood is reached from Camden Station (B. & O. Railroad) by the St. Paul Street trolley line, cars marked "Guilford-Union Station"; from the Mt. Royal Station (B. & O. Railroad) by walking two blocks east to Charles street, and from Union Station (Pa., N. C., and W. M. Railroads) by the trolley line on Charles street, marked "Roland Park" or "Guilford-Union Station"; and also by the north-bound blue motor-bus on Charles street. One should alight at 32d or at 34th street.

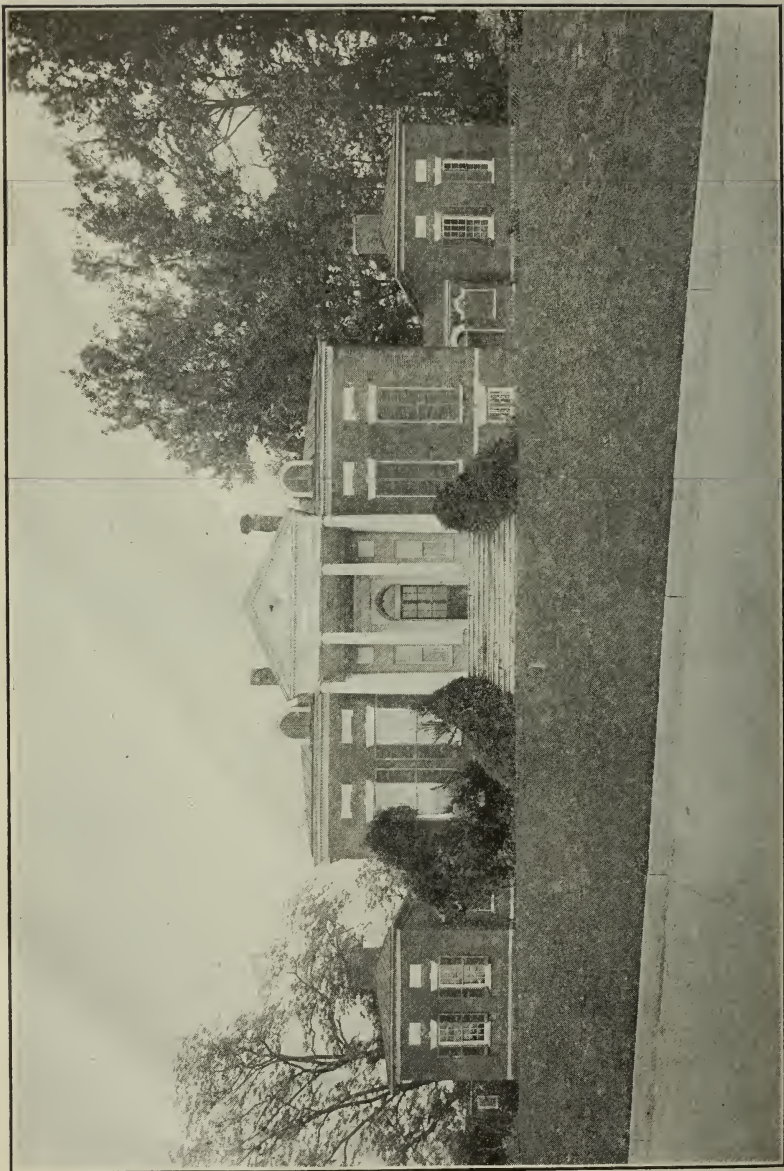
#### EXPENSES

The regular tuition fee is \$25.00, payment of which entitles the student to attend as many as three courses. An additional course, with the exceptions noted in the statements of certain courses, may



GILMAN HALL





THE JOHNS HOPKINS CLUB



be attended, with the approval of the Director, upon the payment of an extra fee of \$10.00. (Under very exceptional circumstances, a student may register in one course only, the tuition fee in such case being \$15.)

The tuition fee for teachers employed in public schools in Maryland, as evidenced by superintendent's certificates, is \$12.50, payment of which entitles such persons to register in two or three courses. Students failing to attend regularly the courses in which they have registered will be subject to the payment of the full fee.

The fees for the courses in Fine Arts and Red Cross Home Nursing will be found in the statements of these courses.

Additional fees are required for materials used in some of the courses. (For details, see statements of courses.)

The fee for the use of the tennis courts at the athletic field, including towel service, is \$2.00. The use of the campus tennis courts is free.

No reduction of fees will be allowed for late entrance or for withdrawal.

Checks will be received in payment of fees when drawn for the exact amount to the order of the Johns Hopkins University. For the convenience of students while in residence at the University, the Treasurer will receive out-of-town checks and drafts for payment upon collection. There is no charge for this service other than the exchange.

#### BOARD AND LODGING

Board will be furnished at the Johns Hopkins Club, located in the Carroll Mansion on the campus. Men and women in attendance are eligible for summer membership, the fee being \$1.00. This fee is payable by all who are not regular members of the Club. Membership cards are issued by the Director upon registration at the University. The Club will open with luncheon, Monday, July 7, and close with dinner Saturday, August 16. Board is furnished at \$8.00 per week. Luncheons are served singly at 50 cents. The dairy lunch room in the Student Activities Building will be open daily during the session.

The University has no dormitories. Furnished rooms in private homes in the vicinity of the University are offered for rent at prices ranging from \$2.00 to \$4.00 per week for a single room, and \$4.00 to \$7.00 a week for a suite of rooms. Board can be had in private boarding-houses or in public restaurants at prices ranging from \$6.00 to \$10.00 per week. A printed list of boarding and lodging houses will be sent upon request.

## LECTURES AND RECITALS

In addition to the social opportunities afforded by the opening and closing receptions, students are invited to the lectures and recitals which will be given every Wednesday afternoon and Friday evening, in coöperation with the Summer Session of the Peabody Conservatory of Music.

## EXCURSIONS

Saturday excursions will be made to Annapolis, the State capital, and Washington, D. C., both within an hour's ride by trolley, and to points of interest in and about Baltimore.

## THE UNIVERSITY POST-OFFICE AND BOOK-STORE

The University post-office, in Gilman Hall, will be open. Students may have their mail addressed in care of Johns Hopkins University.

The Johns Hopkins Press Book-Store (102 Gilman Hall) supplies officers and students with text books, stationery, and other materials at list prices. The book-store will be open daily.

## BUREAU OF APPOINTMENTS

The University Bureau of Appointments extends its services *gratis* to the students registered in the Summer Courses. These services include assistance in placing students in academic and non-academic positions. (Office, 303 Gilman Hall).

## SUMMER COURSES FOR GRADUATES IN MEDICINE

The special courses for physicians, in connection with the Johns Hopkins Medical School and Hospital, will not be given this summer. It is expected that they will be resumed in 1920.

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## COURSES OF INSTRUCTION

### BIOLOGY

1. GENERAL BIOLOGY. Professor ENDERS and Mr. KOHL. C\* 9.30 G 11†

The course is open to all students without previous training in science. Study and comparison, with the aid of the microscope, of typical organisms from the simpler, as amoeba and yeast, to the more complex. The lectures deal with the manner in which plants and animals carry on their activities, and point out our present interpretations and biological theories.

Texts: Abbott, *General Biology* (Macmillan); Enders, *Laboratory Directions in General Biology*.

2. ZOOLOGY. Professor ENDERS and Mr. KOHL. C 12.30 G 11

The laboratory work of this course consists of a study of such representative animals as amoeba, hydra, an earthworm, a crayfish, and a frog. The behavior of these animals as well as their structure are studied, including occasional field excursions to streams, forests, and open fields, for the purpose of becoming better acquainted with the habitats of animals. The lectures supplement, for the most part, the work in the laboratory, but a few lectures are devoted to the more general problems of zoological science.

Texts: Hegner, *College Zoology* (Macmillan); Pratt, *Invertebrate Zoology* (Ginn).

3. THE TEACHING OF BOTANY IN SECONDARY SCHOOLS. Professor ENDERS and Mr. KOHL. C 11.30 G 11

The course includes laboratory study of plant material with reference to the needs of secondary schools, and a consideration of methods of teaching botany.

Text: Leavitt, *Outlines in Botany* (American Book Co.). Other high school texts will be used for reference.

Laboratory fee: \$1.00, for each course.

NOTE.—Students who completed any of the courses in Biology in former summers and desire to continue in this subject will be assigned new work, for which credit will be allowed.

### CHEMISTRY

1. ORGANIC CHEMISTRY. Professor GILPIN. G 10.30 G 110

This course is intended for those who have had a thorough training in inorganic chemistry and will be suited to the needs of graduate students and those who wish to prepare for entrance into the Medical School.

Texts: Remsen, *Organic Chemistry* (Heath); Norris, *Organic Chemistry* (McGraw Hill Book Co.).

Laboratory fee: \$7.00.

2. QUALITATIVE, OR QUANTITATIVE ANALYSIS. Professor GILPIN. G and C M 29

For those who have had sufficient preparation, opportunity will be offered for individual laboratory work in either of these subjects.

Laboratory fee: \$7.00.

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\* C and G preceding the hour indicate that the course may be offered for collegiate or graduate credit, respectively.

† The final initial and number indicate the building and classroom: G, Gilman Hall; C, Civil Engineering; M, Mechanical Engineering; S, Student Activities.

### 3. INTRODUCTION TO GENERAL CHEMISTRY. Professor GILPIN. C 11.30 G 110

No previous knowledge of chemistry is required for this course. It will include, as far as possible in the time allowed, a study of the more important non-metallic and metallic elements and their properties. Remsen's *Chemistry* (Briefer Course) will be used as a basis for the class-room and laboratory work.

Laboratory fee: \$5.00.

The fee for materials in the several courses does not include the cost of small pieces of apparatus not returnable, and the charge for breakage to be paid at the close of the session. This additional expense averages about \$2.00.

## ECONOMICS

### 1. AMERICAN ECONOMIC HISTORY. Dr. MITCHELL. G and C 9.30 G 315

Besides dealing with the economic development of the country as such, the effort is made to show how the history of the United States has been influenced by the economic motive. Special attention is given to the economic history of the South.

Text: Bogart, *Economic History of the United States* (Longmans Green & Co.).

### 2. THE CHILD IN INDUSTRY. Dr. MITCHELL. C 8.30 G 315

The course deals with the industrial and legal aspects of child labor. Collateral fields are touched upon, such as juvenile courts and juvenile delinquency, and especially the relationship between child labor and education and health.

### 3. ELEMENTS OF ECONOMICS. Dr. MITCHELL. C 11.30 G 315

The principles of the science are dwelt upon with the attempt to give the student a general grasp of the subject. Illustrations are drawn as often as possible from economic happenings of the present.

Text: Ely, *Outlines of Economics* (Macmillan).

## EDUCATION

### 1. EXPERIMENTAL EDUCATION. Dr. JOHNSON. G 9.30 G 216

This course includes a study of the aims and general methods of educational research and measurement. Emphasis is placed on methods of approaching educational problems, and the application and evaluation of mental tests and measuring scales. Provision is made for training in giving mental tests, standard scales in school subjects, and in using statistical methods of deriving the results. Opportunity is offered those prepared to undertake researches in either of these lines of experimental education.

Lectures, demonstrations, experiments, and special reports.

(See Seminary in Psychology, Psychology 2).

### 2. EDUCATIONAL PSYCHOLOGY. Dr. JOHNSON. G and C 12.30 G 401

This course offers a study of the psychology of child development and the significance of behavior as an expression of the mental life with special consideration of the experimental approach to the study of the instinctive and reflex equipment, motor capacities, habit-formation, emotions, thought processes, and individual differences.

Lectures, assigned readings, and reports.

### 3. EDUCATIONAL ADMINISTRATION. Professor BUCHNER. G and C 10.30 G 216

The topic of this course is the business administration of schools. Attention is given to the economic bases and educational phases of the related problems of special concern to superintendents and principals, such as sources and distribution

of public school funds, maintenance of school plant and development of building programs, administrative use of records and reports, measuring the efficiency of administration, school statistics and educational publicity. Use is made of the results of representative studies.

A series of special conferences for county superintendents, on the general topic of business methods in school administration, will be conducted by Assistant Superintendent Reavis, on the five successive Mondays, July 14, 21, 28, August 4, and 11. The topics will be: Building plans and problems of construction; Purchase, distribution, and use of school supplies; Types of records and reports; Business methods in office practice; The control of factors influencing school attendance.

#### 4. MODERN EDUCATIONAL THEORY. Miss BAMBERGER. G 11.30 G 311

A study of the current social theories of the school and their application is undertaken, including such topics as the democratic conception of education, the curriculum, the development of classroom conduct and the modification of school-room procedure. Reports on required readings are required.

### *Secondary Education*

#### 5. SECONDARY EDUCATION. Dr. WEGLEIN. G and C 11.30 G 310

This course deals with some of the principal topics in secondary education; the historical development and function of the American high school; comparisons with secondary schools in other countries; the main problems connected with the program of studies; extra class-room activities; supervised study; methods of instruction.

Lectures, required readings, and reports.

#### 6. THE JUNIOR HIGH SCHOOL. Dr. WEGLEIN. G and C 8.30 G 310

The reorganization of education, historical survey of the junior high school, articulation of junior high schools with elementary schools and with senior high schools, provision for individual differences, programs of study, problems of administration and supervision.

#### 7. THE TEACHING OF LITERATURE IN SECONDARY SCHOOLS. Miss SIMONS. G and C 10.30 G 310

In this course problems in the teaching of literature in both the junior and the senior high schools are considered and solutions suggested. The following problems are discussed: Selecting the masterpiece, teaching the masterpiece, dramatization, imitation, memorizing, the speaking voice, reading aloud, silent reading, outside reading, the magazine, the literature of the war, American literature, the history of literature. Each member of the class is expected to select a problem and submit a solution.

Text: Bolenius, *Teaching Literature in the Grammar Grades and High School* (Houghton Mifflin Co.).

#### 8. THE TEACHING OF ENGLISH COMPOSITION IN SECONDARY SCHOOLS. Miss SIMONS. G and C 9.30 G 310

This subject is approached from the point of view of problems stated and solutions proposed. The fields of the junior and the senior high schools are kept in view. The following topics are considered: Grammar, spelling, the sentence, the sentence-group or the paragraph, written work, the letter, correction of themes, the conference, oral work, the speaking voice. Pupils' themes are used as illustrative material. As in Course 7, each member of the class is expected to select a problem and submit a solution.

Text: Ward, *What is English* (Scott, Foresman & Co.).

In addition to the texts indicated, courses 7 and 8 will use: *Reorganization of English in Secondary Schools*. Bulletin 1917, No. 2, Bureau of Education, Washington, D. C.; *The English Journal*, ed. J. F. Hosie.



9 THE TEACHING OF HISTORY IN SECONDARY SCHOOLS. MR. ISANOGLU.  
G and C 12.30 G 305

The course reviews the development of history from its advent as a school subject to its important place as the core of the social subjects in the reorganized curricula. Consideration is given to the selection of subject matter in history, the order and plan of its treatment, the lesson plan, devices and helps in the recitation, note taking and the handling of written work, supervised study, and the measurement of results of history teaching in the upper grades and the high school. Attention is given to the treatment of the social studies in the newer courses of study for the junior high school. (Illustrative lessons in the Demonstration School).

Lectures, readings, and reports.

10. THE TEACHING OF ALGEBRA AND GEOMETRY IN SECONDARY SCHOOLS. MR. SILER. G and C 9.30 G 103

An examination of the foundations of algebra and geometry from the teacher's viewpoint and the determination of the aims in teaching these subjects are followed by discussion of methods on special topics.

Lectures, readings and reports.

11. THE TEACHING OF GENERAL SCIENCE IN SECONDARY SCHOOLS.  
MR. SILER. G and C 10.30 G 103

The course offers a consideration of the fundamentals of general science for the determination of the methods of approach in the class-room and the laboratory. Attention is given to the teaching problems, including the making of simple apparatus, in both junior and senior high schools.

Lectures, readings and reports.

*Elementary Education*

12. ELEMENTARY DEMONSTRATION SCHOOL. MISS BAMBERGER. C  
12.30 G 110

The purpose of this course is to furnish a practical study of the teaching process in elementary schools by means of systematic observation, conference reports and discussions. The school will include classes of the fourth, fifth, sixth, seventh, and eighth grades, and will be in session from 8.30 a. m. to 12.30 p. m. These classes are open for observation to those registered for this course. The observation of the teaching will begin Monday, July 14.

The requirement of those taking the course for credit (one point) is one conference (12.30 p. m.) and four observation hours per week, with two written reports.

13. ELEMENTARY SCHOOL SUPERVISION. MISS BAMBERGER. G and C  
10.30 G 311

This study of the professional duties of the supervisor and the supervising principal includes as its chief topics principles of curriculum making, programs and lesson plans, criticism of instruction, and the improvement of teachers in service. Discussions will be based upon lesson plans in actual use and on observations in the Elementary Demonstration School.

14. SCHOOL MANAGEMENT AND SCHOOL LAW. MISS SIMPSON. C  
9.30 G 312

This course is designed for teachers and principals and includes a study of: classroom organization and routine, the principles underlying group-instruction, the problems of discipline and of school attendance, the formulating of programs, the classification of pupils and the grading of their work, the place and scope of school hygiene, the psychology of school incentives, measuring the results of teaching, affiliated activities and outside interests. Special attention is given to the State school law in its relation to the teacher and to the affairs of the school.

## 15. GRAMMAR GRADE METHODS. Miss BAMBERGER. C 8.30 G 312

This course presents the theory and practice of teaching the various subjects in the last four years of the elementary school. Topics to be considered will include the selection of subject matter, the method of instruction, and the management of children. Discussions will be based upon observation of lessons in the Elementary Demonstration School. Outside reading and written reports.

16. PRIMARY GRADE METHODS. Miss BROCHHAUSEN. C 8.30  
G 314

By means of lectures and discussions this course considers the questions: What are the American ideals? What are the distinguishing characteristics of Americans? What should be the spirit of the American school? How can the first four grades lay a foundation for the development of true Americans? The subject matter for each grade is outlined and effective methods for presenting the material are given. The course will be developed in connection with observation in the Elementary Demonstration School. Outside reading and reports.

Text: Strayer, *A Brief Course in the Teaching Process* (Macmillan).

17. THE TEACHING OF ENGLISH IN THE ELEMENTARY SCHOOL. Miss  
BROCHHAUSEN. C 9.30 G 314

The course of lectures, reports, and discussions is devoted to the teaching of English in the eight grades of the elementary school. Special emphasis will be placed upon the teaching of oral and written composition, the correlation between composition and literature, and the relation of spelling and grammar to composition. Systematic observation in the Elementary Demonstration School will form a part of the work of the course. Outside reading will be required.

Text: Leonard, *English Composition as a Social Problem* (Houghton Mifflin Co.).

## 18. STORY TELLING. Miss BROCHHAUSEN. C 11.30 G 314

This course consists of discussions and practice in story telling. Such topics as the choice of the story, the preparation of the story, and the use to be made of the story will be discussed. Outside reading will be required.

Text: Shedlock, *The Art of Story Telling*. (Appleton).

## 19. RURAL SCHOOL PROBLEMS. Miss SIMPSON. C 11.30 G 312

A study is made of the rural school as a social as well as an educational problem with a consideration of the data which should be available for its solution. Among the topics to be discussed are school buildings and equipment, the course of study, the purpose and use of text-books, lesson assignment and preparation, supervised study, home lessons, seat work, recreation and playgrounds, and rural hygiene. Special exercises are given in the preparation of material helpful in teaching, such as the daily program, outlines, lesson plans, and plans for term projects.

The work proceeds with reference to the Maryland Elementary Course of Study, and is designed, along with Education 15, to meet the needs of persons wishing to secure the minimum preparation for teaching.

## 20. PROBLEMS IN AMERICANIZATION. 9.30

This course, given in coöperation with the Maryland League for National Defense, offers special training for teachers of non-English speaking adults.

Attention is given to the various problems involved in the Americanization movement, including racial, social, and educational features, and to methods of teaching English to foreigners. Classes of adults, men and women, conducted in the city by the International Institute of the Young Women's Christian Association and by the Young Men's Christian Association will be available for observation and demonstration.

Tuition fee: \$5 for students registering in this course alone.

## ENGLISH COMPOSITION

1. THE SHORT STORY. Associate Professor RAMSAY. C 8.30 G 113

Study and practice in the story and related forms of imaginative composition. Representative stories and dramas are used as material for analysis and imitation.

Text: Williams, *A Handbook on Story Writing* (Dodd, Mead & Co.).

2. EXPOSITORY WRITING. Miss HARTMAN. C 10.30 G 312

An advanced course in English composition, devoted primarily to the principles and the practice of exposition. In range and in material the course is adapted, so far as is possible, to the needs of the class.

Text: Jeliffe, *Handbook of Exposition* (Macmillan).

3. ENGLISH COMPOSITION. Miss HARTMAN. C 12.30 G 312

This course consists of a survey of the principles of written English and constant practice in writing. Personal conferences are an important part of the course. Wherever possible, provision is made for the correlation of the work of individual students with their studies in other departments of instruction.

Text: Espenshade, *The Essentials of Composition and Rhetoric* (Heath).

## ENGLISH LITERATURE

1. MODERN ENGLISH DRAMA. Associate Professor RAMSAY. G and C 9.30 G 113

The new development of English and American drama during the past thirty years, with a survey of the work of some foreign masters who influenced its course.

Text: Dickinson, *Chief Contemporary Dramatists* (Houghton Mifflin Co.).

2. MILTON AND HIS TIME. Associate Professor RAMSAY. G and C 11.30 G 113

Milton's greater works, both in prose and poetry, studied as a developing expression of that ideal of freedom which was the masterthought of his own age and his greatest contribution to ours.

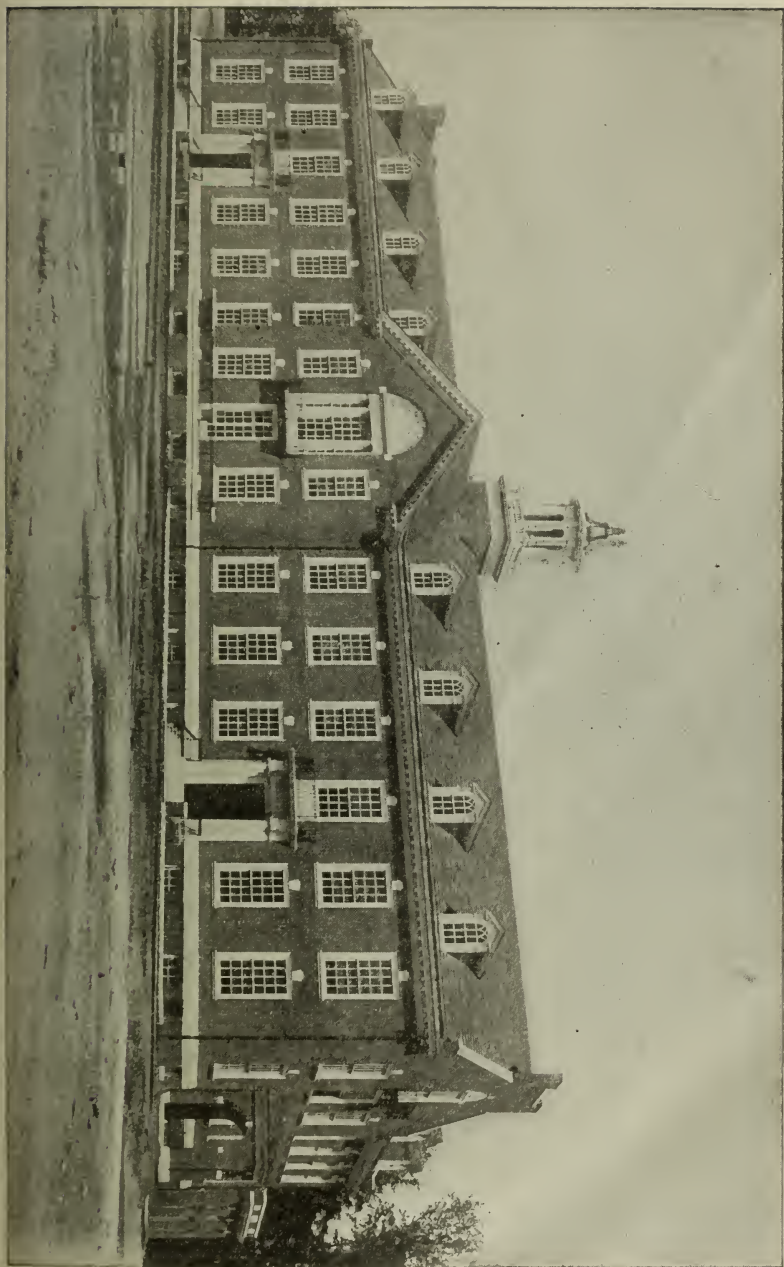
Text: *Milton's Poems*, one-volume Cambridge ed. (Houghton Mifflin Co.).

3. ENGLISH LITERATURE, 1775-1892. Mr. UHLER. C 12.30 G 315

This course treats the leading literary works of the poets, novelists, and essayists in the Romantic and Victorian periods and includes some discussion of the writers themselves and the development of literary and philosophic thought.

## FINE ARTS

The courses in Fine Arts are given in co-operation with the Maryland Institute, of Baltimore, and constitute the fourth summer session of its School of Art and Design. The instruction will be given at Homewood, where the special facilities for out-of-door work in the practical courses will be constantly used. Students matriculated as candidates for a baccalaureate degree may offer these courses, as indicated, for credit. Registration in these courses is subject to the approval of Miss STEWART.







CIVIL ENGINEERING BUILDING



## 1. PORTRAIT PAINTING. Mr. ROSEN. C 9.30-11.20 M 202

In this course an opportunity is afforded advanced students to draw and paint from the model for composition, or head and figure painting in oil, or charcoal drawing. The work in this course leads to magazine illustration, mural painting, and portraiture.

## 2. LANDSCAPE AND STILL-LIFE IN OIL PAINTING. Mr. ROSEN. C 11.30-1.20 M 202

This course is designed for students in Fine Arts who desire drawing in color to lead to more advanced work, or to specialize in out-of-door painting.

The abundant variety of views about the University grounds and nearby points of interest will be utilized on all pleasant days; otherwise, the study will consist of still-life or flowers indoors.

## 3. THEORY OF ART. Mr. POND. C 11.30-1.20 M 119

This course is planned especially for teachers of art in public and private schools, and includes illustrated talks on the theory of design, composition and color, and the application of the principles formulated to class-room problems in applied design, pictorial composition, illustration and advertising art.

## 4. APPLIED ARTS AND HANDICRAFT. Mr. POND. C 9.30-11.20 M 117

A course of practical instruction in simple handicrafts adapted to the needs of public and private school teachers and students of Occupational Therapy.

The course includes the design and execution of stencils, block prints, leather work, knife work, chip carving, permadello modeling, and such toys as can be made with knife and coping saw.

## 5. ELEMENTARY SCHOOL COLOR WORK. Miss STEWART. C 9.30-11.20 S

This course provides practice with color work throughout the grades in the elementary school. The objects used will be flowers and still-life of familiar forms, with out-of-door sketching.

## 6. DRAWING. Miss STEWART. C 11.30-1.20 S

This course in drawing is designed for those who wish to teach drawing and desire to add to their methods of instruction.

The regular tuition fee for the courses in Fine Arts is \$10, upon payment of which students may elect from one to four hours of instruction. Students regularly registering in courses in other departments are permitted to elect one or two hours of work in this department upon the payment of an additional fee of \$5.

Material for any of the above courses may be obtained at the University Bookstore.

The University reserves the right to withdraw courses 3 and 4 in case there are fewer than ten registrations in either or both.

Changes in the schedule may be made to meet the convenience of a majority of the students. Academic credit will be allowed only for the satisfactory completion of a double-period course.

## FRENCH

## 1. OLD FRENCH. Miss STURDEVANT. G and C 8.30 G 205

An introduction to the study of mediæval French literature and language, the stress being laid on one or the other according to the needs of individual students.

Readings in the principal *genres* from the origins to the end of the fifteenth century, including selections from such works as the *Pèlerinage de Charlemagne*, *Chanson de Roland*, *Aucassin et Nicolette*, *Roman de Renard*, *Farce de Maître Pathelin*, and from such writers as Chrétien de Troyes, Marie de France, Villehardouin, Froissart and Arnoul Greban.

Pre-requisite: A knowledge of modern French and of Latin.

## 2. THE FRENCH NOVEL. Mr. DULAC. G and C 12.30 G 205

This course offers a special study of the development of the French novel from *La Princesse de Clèves* to Balzac and is intended for students who have considerable facility in reading modern French. The minimum of preparation for entrance is the work outlined in Course 3. Lectures in French, collateral reading, reports in French. Advanced students will do supplementary work.

Texts: Madame de La Fayette, *La Princesse de Clèves* (Ginn); Lesage, *Gil Blas* (Heath); Voltaire, *Zadig* (Heath); Chateaubriand, *Atala* (Heath); Hugo, *Les Misérables* (Heath); Gautier, *Jettatura* (Heath); Sand, *La Petite Fadette* (Ginn).

## 3. PRACTICAL FRENCH. Mr. DULAC. C 11.30 G 205

This course is intended for students who have had the equivalent of French 4. The exercises of the class are conducted in French.

Texts: Hugo, *La Chute* (Heath); Maupassant, *Contes choisis*, ed. Brush (Holt); Labiche, *La Poudre aux yeux* (Macmillan); Marique and Gilson, *French Composition* (Ginn).

## 4. INTERMEDIATE FRENCH. Miss STURDEVANT. C 9.30 G 205

This course presupposes the completion of French 5 or the equivalent, and includes a review of the essentials of grammar, drill in pronunciation and practice in easy composition.

Texts: *A French Reader*, ed. Aldrich and Foster (Ginn); Labiche, *La Grammaire*, ed. Levi (Heath); Sardou, *Les Pattes de Mouche*, ed. Farnsworth (Heath); Dumas, *Le Chevalier de Maison Rouge*, ed. Sauveur and Jones (American Book Co.); Michelet, *L'Histoire de France*, ed. Wright (Heath).

## 5. ELEMENTARY FRENCH. Mr. DULAC. C 10.30 G 205

This course is planned for students beginning the study of French. The work consists of a study of the essentials of grammar, drill in pronunciation, composition, and careful reading of texts.

Texts: Aldrich and Foster, *Foundations of French* (Ginn); *Scenes of Familiar Life* (Macmillan); About, *La Mère de la Marquise*, ed. Brush (Heath).

NOTE.—Satisfactory completion of this course will be counted as partial fulfillment of the entrance requirements in French.

## GERMAN

## 1. GOETHE AND SCHILLER: 1794-1805. Associate Professor ROULSTON. G 9.30 G 320

This course is based primarily upon the correspondence between Goethe and Schiller. The works of the two poets during this period are studied, together with the gradual formulation of the classical ideas and ideals. Especial attention is paid to Schiller's esthetic theories and the *Balladenjahr*.

## 2. ADVANCED PROSE COMPOSITION AND PRACTICAL EXERCISES. Associate Professor ROULSTON. G and C 8.30 G 108

Practice in translating from English and in writing original themes is furnished by this course. Especial attention is devoted to the study of idioms and to the differences between the spoken and the written language.

## 3. (a) READINGS IN GERMAN. Associate Professor ROULSTON. C 10.30 G 108

The nature of this course will depend upon the previous preparation of the students.

or,

## (b) ELEMENTARY GERMAN. Associate Professor ROULSTON.

A thorough review of the grammar is given. This course will especially meet the needs of those who wish such a review while following more advanced courses.

NOTE.—Texts will be announced at the opening of the session, a supply of books being available at the University Book-Store.

## HISTORY

1. AMERICAN HISTORY, 1776-1829. Professor CALLAHAN. G 11.30  
G 305

A seminary for advanced students on the most important problems concerned in the formation of the American union. Special attention is given to political and constitutional development, international relations, and industrial and social growth.

2. AMERICAN DIPLOMACY AND FOREIGN POLICY, 1776-1919. Professor CALLAHAN. G and C 10.30 G 305

The fundamental principles of American policy; a study of the most important phases of American international relations; America's influence on international law and diplomacy; the State Department and its most distinguished secretaries.

Texts: Latané, *From Isolation to Leadership* (Doubleday, Page & Co.); Fish, *American Diplomacy* (Henry Holt & Co.).

3. MODERN ENGLISH HISTORY. Professor CALLAHAN. C 8.30 G 305

A survey of the connected landmarks of general and institutional English history, presenting a study of the enlargement of English life, from the Tudors to the present time.

The plan of the course emphasizes political and constitutional development, the evolution of colonial policy and recent foreign relations, and includes a somewhat detailed study of relations with America.

Texts: Tout, *An Advanced History of Great Britain* (Longmans Green & Co.); Slater, *The Making of Modern England* (Houghton Mifflin Co.).

4. ROMAN HISTORY. Associate Professor EBELING. C 9.30 G 108

This course gives a general survey of Roman history down to the time of the Antonines. The aim is to understand the constitution of the Roman government and the causes of the greatness of Rome. The character of the people as revealed in their literature, art, and social life is considered.

Texts: Pelham, *Outlines of Roman History* (Putnam); Munro, *Source Book of Roman History* (Heath).

## LATIN LITERATURE

- LATIN LITERATURE, FROM EARLIEST BEGINNINGS TO THE END OF THE SECOND CENTURY A. D. Associate Professor EBELING. G and C 11.30 G 108

This course is designed to give a comprehensive view of Latin literature at its best. It consists of lectures and the reading of selected specimens of both prose and verse. The reading is done in translation so that an extensive survey can be made.

Texts: Mackail, *Latin Literature* (Scribner's); Laing, *Masterpieces of Latin Literature* (Houghton Mifflin Co.).

## MANUAL TRAINING

1. BENCH WORK IN WOOD. Mr. GAITHER. C 8.30-10.20 M

This course includes the use of tools and bench work in wood in the upper, elementary, and lower grades, outlining courses, planning equipment and methods of individual and class exercise. Advanced construction in both hard and soft woods is available for advanced students.

Laboratory fee: \$3.50.

## 2. ELEMENTARY MANUAL TRAINING. Mr. GAITHER. C 11.30 M

This course includes hand-work processes in paper, cardboard, weaving, raffia, basketry, bookbinding and woodwork suitable for the first six years of the elementary schools, and in materials suitable for rural schools.

Those desiring training as playground and recreation leaders will find this course adapted to their needs.

Laboratory fee: \$2.50.

## 3. MECHANICAL DRAWING. Mr. GAITHER. C 10.30 M

This course is designed to meet the special needs of teachers of mechanical drawing, manual and vocational training. Emphasis is placed on the functional value of mechanical drawing to related subjects.

Laboratory fee: \$1.50. Students will provide their own drawing instruments.

NOTE.—Students satisfactorily completing courses 1 and 3 will be eligible to take the examination for manual training teachers in Baltimore city schools, provided they are graduates of secondary schools equal in entrance requirements to the secondary schools of Baltimore.

## MATHEMATICS

## 1. FINITE GROUPS. Dr. COHEN. G 10.30 G 2

A simple introduction to the subject.

## 2. ANALYTIC GEOMETRY. Dr. COHEN. C 11.30 G 2

A study of the straight line and the conic sections.

## 3. TRIGONOMETRY. Dr. COHEN. 12.30 G 2

In case of sufficient demand algebra (b) will be substituted for this course.

## MUSIC

The Peabody Conservatory of Music of Baltimore is announcing its summer session of six weeks, July 7 to August 16. Its program includes courses in Singing, Piano, Organ, Violin, Composition, Harmony, Form and Analysis, Interpretation, Piano Pedagogy, Theory, Ear Training, and Musical Literature.

As in former years, candidates for the degree of Bachelor of Arts or Science may offer for credit the courses in Harmony and in Form and Analysis, when officially reported by the Conservatory as having been satisfactorily completed.

Circulars containing full particulars will be sent on application to either the University or the Conservatory.

## PHILOSOPHY

## 1. SOCIAL ETHICS. Dr. SLONIMSKY. G and C 10.30 G 113

This course is an attempt to formulate a theory of progress from the standpoint of ethics, and to analyze and appraise the existing social institutions—the state, the economic order, and the family—in the light of that theory.

## 2. POLITICAL THEORIES OF MODERN TIMES. Dr. SLONIMSKY. G and C 12.30 G 113

An examination of the various theories which have been advanced in modern times concerning the nature of the state, its moral justification, the relation of the individual to the state, and the rights of individuals.

## POLITICS

## 1. AMERICAN NATIONAL GOVERNMENT. Professor MATHEWS. G 8.30 G 320

Historical development, organization, powers, limitations and practical working of the national government of the United States.

Text: Beard, *American Government and Politics* (Macmillan).

2. AMERICAN STATE GOVERNMENT. Professor MATHEWS. G and C  
10.30 G 320

This course includes studies in the organization, powers, and methods of the American commonwealths in formulating and executing public policies. Advanced students will do supplementary work.

Text: Beard, *American Government and Politics* (Macmillan).

## PSYCHOLOGY

1. RESEARCH IN PSYCHOLOGY. Professor DUNLAP. G G 401

Opportunity to conduct experimental investigation is given to students adequately prepared. Laboratory periods of not less than ten hours per week are required.

NOTE.—Students desiring to investigate special problems are requested to communicate with the instructor as early as possible in order that all necessary special apparatus may be on hand at the opening of the session.

2. SEMINARY IN PSYCHOLOGY. Professor DUNLAP and Dr. JOHNSON.  
G and C 11.30 G 401

The topic for this course is the development and application of psychological tests, including industrial, educational, and hygienic applications.

Open to adequately prepared students.

(See Experimental Education, Education 1).

3. SCIENTIFIC METHOD IN PSYCHOLOGY. Professor DUNLAP. G and  
C 9.30 G 401

A critical study of methods and hypotheses applicable to problems of emotion, habit formation, judgment, and personal evaluation.

Open to adequately prepared students. At least one course in psychology is pre-requisite.

4. INTRODUCTORY PSYCHOLOGY. Professor DUNLAP. C 8.30 G 311

Beginning the study of the mental life as a function of the reactions of the organism. Perception, thought, and conduct are considered in the light of the essential reactions involved, the hereditary tendencies to specific types of reaction (instincts), the formation of new reactions (habit formation), and emotional motivation.

## RED CROSS HOME NURSING

HOME HYGIENE AND CARE OF THE SICK. Miss MARTIN. Monday and  
Thursday. 2-3.30 M 206

This course, offered in coöperation with the Baltimore Chapter, American Red Cross, provides individual training in elementary hygiene and home care of the sick, based upon the more recent developments in hygiene, sanitation, and methods of home-nursing. The course includes fifteen lessons, the class meeting on such additional days as may be arranged.

Tuition fee: \$2.50. All necessary materials will be furnished. The course may be withdrawn in case there are fewer than ten registrations.

Text: Delano, *American Red Cross Textbook on Home Hygiene and Care of the Sick* (Blakiston's Son and Co.).



## SPANISH

1. SPANISH LITERATURE. Associate Professor WITHERS. G and C  
9.30 G 100

A critical study of representative specimens of Spanish drama and fiction of the nineteenth century. Any modification of the course necessary to meet the needs of students will be made. Advanced students will do supplementary work.

Texts: Valera, *Pepita Jiménez* (American Book Co.); Ibañez, *La Barraca* (Holt); Gil y Zárate, *Guzmán el Bueno* (Ginn); Echegaray, *El Gran Galeoto* (A. Kopf, New York).

2. INTERMEDIATE SPANISH. Associate Professor WITHERS. C 8.30  
G 100

Reading of modern prose in class and as parallel; prose composition and conversational practice based on Espinosa's *Advanced Spanish Composition and Conversation* (Sanborn and Co.).

Additional texts: Galdós, *Marianela* (Heath); Valdés, *Capitán Ribot* (Heath); Alarcón, *El Capitán Veneno* (Heath).

3. ELEMENTARY SPANISH. Associate Professor WITHERS. C 10.30  
G 100

Grammar, reading, composition, with special stress on pronunciation and oral exercises.

Texts: Olmsted and Gordon, *Abridged Spanish Grammar* (Holt); Roessler and Remy, *First Spanish Reader* (American Book Co.); other reading texts to be selected according to the needs of the class.

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## SCHEDULE

### 8.30—9.20

Economics 2  
Education 6  
Education 15  
Education 16  
English Composition 1  
French 1  
German 2  
History 3  
Manual Training 1 (8.30—10.20)  
Politics 1  
Psychology 4  
Spanish 2

### 9.30—10.20

Biology 1  
Economics 1  
Education 1  
Education 8  
Education 10  
Education 14  
Education 17  
Education 20  
English Literature 1  
Fine Arts 1 (9.30—11.20)  
Fine Arts 4 (9.30—11.20)  
Fine Arts 5 (9.30—11.20)  
French 4  
German 1  
History 4  
Manual Training 1 (continued)  
Psychology 3  
Spanish 1

### 10.30—11.20

Chemistry 1  
Education 3  
Education 7  
Education 11  
Education 13  
English Composition 2  
Fine Arts 1 (continued)  
Fine Arts 4 (continued)  
Fine Arts 5 (continued)  
French 5  
German 3  
History 2

### 10.30—11.20 (continued)

Mathematics 1  
Manual Training 3  
Philosophy 1  
Politics 2  
Spanish 3

### 11.30—12.20

Biology 3  
Chemistry 3  
Economics 3  
Education 4  
Education 5  
Education 18  
Education 19  
English Literature 2  
Fine Arts 2 (11.30—1.20)  
Fine Arts 3 (11.30—1.20)  
Fine Arts 6 (11.30—1.20)  
French 3  
History 1  
Latin Literature  
Manual Training 2  
Mathematics 2  
Psychology 2

### 12.30—1.20

Biology 2  
Education 2  
Education 9  
Education 12 (Conference)  
English Composition 3  
English Literature 3  
Fine Arts 2 (continued)  
Fine Arts 3 (continued)  
Fine Arts 6 (continued)  
French 2  
Mathematics 3  
Philosophy 2

### 1.30—4.20

Chemical Laboratory

### 2.00—3.30

Red Cross Home Nursing (M., Th.)

### 2.30—4.20

Biological Laboratory  
Psychological Laboratory

8.30—12.30: Elementary Demonstration School. [Classes will be open for observation Monday, July 14.]

The hours of Chemistry 2, Psychology 1, and Red Cross 2 will be arranged.

# THE JOHNS HOPKINS UNIVERSITY

## BALTIMORE

FOUNDED 1876

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A FACULTY OF 350 PROFESSORS, ASSOCIATES, INSTRUCTORS AND LECTURERS

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LABORATORIES

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DEGREE M. D.  
(Open to Men and Women)

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(Not offered in 1919)

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ENGINEERING  
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THE JOHNS HOPKINS PRESS PUBLICATIONS

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MARYLAND GEOLOGICAL SURVEY, MARYLAND WEATHER SERVICE,  
MARYLAND FORESTRY BUREAU

THE  
JOHNS HOPKINS  
UNIVERSITY CIRCULAR

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SUMMER COURSES  
JULY 6—AUGUST 13  
1920

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BALTIMORE, MARYLAND

PUBLISHED BY THE UNIVERSITY

ISSUED MONTHLY, EXCEPT FEBRUARY, JUNE, AUGUST, SEPTEMBER  
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Act of October 3, 1917. Authorized on July 3, 1918

## CALENDAR, 1920

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June 15, Tuesday—Commencement Day.

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July 3—Saturday } 9 a. m. to 4 p. m., Registration,  
July 5—Monday } Gilman Hall, Homewood.

July 6, Tuesday—8.30 a. m., Instruction in the Summer Courses begins.

July 10, Saturday—Classes meet as usual.

August 13, Friday—Close of Summer Courses.

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September 28, Tuesday—Forty-fifth regular session begins.

October 4, Monday—College Courses for Teachers, twelfth year begins.

October 11, Monday—Evening Courses in Business and Social Economics and in Engineering, fifth year begins.

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All work will begin promptly on Tuesday morning, July 6, according to the schedule on page 3 of cover. It is important that students should reach Baltimore in time to be present at the opening exercise of each course which they intend to pursue.

 *Registration should be made prior to July 6.*



# THE JOHNS HOPKINS UNIVERSITY

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## SUMMER COURSES

1920

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### OFFICERS OF ADMINISTRATION

FRANK J. GOODNOW, LL. D.

*President of the University*

EDWARD F. BUCHNER, PH. D.

*Director of the Summer Courses*

THOMAS R. BALL,

*Registrar*

W. GRAHAM BOYCE,

*Treasurer*

---

### INSTRUCTORS

FLORENCE E. BAMBERGER, A. M.

Associate in Education.

*Elementary Education*

ENGLISH BAGBY, PH. D.

Assistant Professor of Psychology, Virginia Military Institute.

*Psychology*

HENRY M. BELDEN, PH. D.

Professor of English, University of Missouri.

*English*

ALBERT G. BELDING, S. B., C. P. A.

Acting Principal, Far Rockaway High School, and Supervisor of Evening Commercial Courses, New York City.

*Commercial Education*

BEVERLEY W. BOND, JR., PH. D.

Associate Professor of History, Purdue University.

*History*

EDWARD F. BUCHNER, PH. D.

Director; Professor of Education.

*Education*

TERESA COHEN, PH. D.

*Mathematics*

FRANCES R. DEARBORN, A. B.

Department of Education and Practice Teaching, The Detroit City Normal, Detroit, Mich.

*Elementary Education*

- WAYLAND F. DUNAWAY, A. M. *Secondary Education*  
Assistant Professor of History, Pennsylvania State College.
- HERMAN L. EBELING, PH. D. *Classical Literature and History*  
Associate Professor of Greek and Instructor in Latin, Goucher College.
- HOWARD E. ENDERS, PH. D. *Biology*  
Professor of Zoology and Head of General Biology, Purdue University.
- JOHN C. FRENCH, PH. D. *English and Journalism*  
Associate Professor of English.
- GEORGE M. GAITHER *Manual Training*  
Supervisor of Manual Training, Baltimore Public Schools.
- J. ELLIOTT GILPIN, PH. D. *Chemistry*  
Collegiate Professor of Chemistry.
- BUFORD J. JOHNSON, PH. D. *Education*  
Bureau of Educational Experiments, New York.
- PERCY L. KAYE, PH. D. *Economics*  
Head of Department of History, Civics and Economics, Baltimore City College.
- EDWIN J. KOHL, S. M. *Biology*  
Instructor in Biology, Purdue University.
- H. CARRINGTON LANCASTER, PH. D. *French*  
Professor of French Literature.
- ELLA LONN, PH. D. *Politics*  
Assistant Professor of History, Goucher College.
- ELMER V. MCCOLLUM, PH. D. *School Hygiene*  
Professor of Bio-Chemistry.
- GEORGE MELCHER, A. M. *Education*  
Director of Bureau of Research and Efficiency, Kansas City Public Schools.
- RAY M. MERRILL, A. M. *Spanish*  
Instructor in Romance Languages.
- G. ELLIS PORTER, A. B. *Journalism*  
Editorial Staff of *The Sun*, Baltimore, Md.
- JONATHAN T. RORER, PH. D. *Secondary Education*  
Head of Department of Mathematics, The William Penn High School, Philadelphia, Pa.
- ROBERT B. ROULSTON, PH. D. *German*  
Associate Professor of German.
- SARAH E. SIMONS, A. M. *Secondary Education*  
Head of Department of English, High Schools, The District of Columbia.
- I. JEWELL SIMPSON, A. B. *Elementary Education*  
Supervisor of Elementary Schools, Carroll County, Md.

MABEL E. SIMPSON, *Elementary Education*  
 Director of Elementary Grades and Kindergartens, Rochester Public Schools.

ALVIN THALHEIMER, PH. D. *Philosophy*  
 Instructor in Philosophy.

DAVID E. WEGLEIN, PH. D. *Secondary Education*  
 Instructor in Education; Principal of Western High School, Baltimore.

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*Problems in Americanization*

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#### DEMONSTRATION SCHOOL

GRADE IV	M 109
GRADE V	M 121
GRADE VI	G 8
GRADE VII	G 9
GRADE VIII	G 112

The location of the Junior High School classes will be announced at the opening of the session.

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## GENERAL STATEMENT

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The tenth year of the Summer Courses of the Johns Hopkins University will open on Tuesday, July 6, and continue until Friday, August 13, inclusive. Exercises in each subject will be held every week-day, Monday to Friday. In addition, on *Saturday, July 10, classes will meet as usual*. Each course will consist of thirty class exercises or their equivalent. In the sciences laboratory work will be additional. Examinations will be held at the close of the session.

As the summer courses are authorized by the Trustees and their credits fixed by the various Faculties, they are an integral part of the work of the University. All the resources of the institution essential to their conduct are placed at the disposal of the students.

The principal object of the University in making provision for the summer work is to furnish instruction to teachers in all grades of schools, and to other persons who seek opportunities for instruction, with or without reference to an academic degree. Some courses offered are designed to meet the needs of graduate and collegiate students who wish to advance their standing or to make up deficiencies; others, to enable non-matriculated students to absolve in part the entrance requirements. Also courses in some subjects not given in the regular session are offered to meet special needs of schools.

## CHARACTER OF INSTRUCTION

The courses maintain the standard of instruction which characterizes the work of the regular session in the subjects representing graduate and collegiate departments, as well as in those introduced to meet the special needs of teachers. In addition to the regular class exercises, instructors hold daily conferences, in which the work of the courses is supplemented and adapted to the particular needs of individuals.

## DEMONSTRATION AND OBSERVATION SCHOOLS

In co-operation with the Baltimore Board of School Commissioners a free elementary school, including the fourth, fifth, sixth, seventh and eighth grades, will be conducted as a means of affording illustrative material for the courses in elementary education. This will be one of the city vacation schools in which pupils will be given an

opportunity to make up deficiencies and to secure promotion at the beginning of the next school year. Classes in several subjects for Junior High School pupils will be included.

Four other city elementary and four secondary vacation schools, including possibly a vocational school, will be open during the session and available for observation in connection with the courses in elementary and secondary education.

#### SELECTION OF COURSES

Candidates for advanced degrees should arrange their programs in consultation with the departments in which their principal subjects lie. New students expecting to become candidates should present their cases to the Director.

Candidates for a baccalaureate degree should consult with the College Dean or the Director prior to the opening of the session, in the selection of courses that will meet requirements for the degree.

Students seeking credit that will enable them to meet in part or in full the requirements of state and city certificates, should select their academic and professional courses in accordance with the regulations in force under the Board of Education or of Examiners to whom their record will be submitted for acceptance.

#### ACADEMIC CREDIT

Graduate courses, leading to the degree of Master of Arts, will be credited by the respective departments in accordance with the rule of the Board of University Studies: the requirement of one of the two years of residence for this degree may be met by attendance and study in three sessions of the Summer Courses. These courses are designated by *G*.

Students matriculated as candidates for any of the baccalaureate degrees will receive credit for the satisfactory completion of those courses designated by *C*. In general the same credit is given per hour as in the regular college courses, *e. g.*, a lecture course of thirty hours has a credit of two "points," or one-third of the credit for a course of three hours per week through the college year. Provided, however, the student follows but two courses, an additional credit may be given. The exact amount of additional credit in each course is determined by the instructor according to the work accomplished, subject to the approval of the Director, but in no case will an additional credit to exceed fifty per cent. be given, nor can a total credit of more than eight points be allowed a student in one summer session.

Students not matriculated in the University will receive certifi-



cates indicating the amount of work satisfactorily performed. These certificates will indicate the value of the work done in each course, and will be accepted by State, County, and City Superintendents and Boards of Examiners in the extension or renewal of teachers' certificates, according to law.

#### ADMISSION AND ATTENDANCE

There are no formal examinations for admission. Students, both men and women, will be admitted to such courses as they are found qualified by the respective instructors to pursue with advantage.

The session will open promptly on July 6, carrying out the schedule provided on page 3 of cover. The Registrar's office (219 Gilman Hall) will be open for registration on Saturday, July 3, Monday, July 5, and Tuesday, July 6, from 9 a. m. to 4 p. m. After July 8, admission to each course will be restricted to registered students. With the consent of the Director, students may make changes in their courses, which must be reported *in person* to the Registrar, up to and including July 8. After this date no change of courses will be permitted.

All fees, including both tuition and special laboratory fees, must be paid to the Treasurer *immediately* as an item in registration.

#### NEW LOCATION

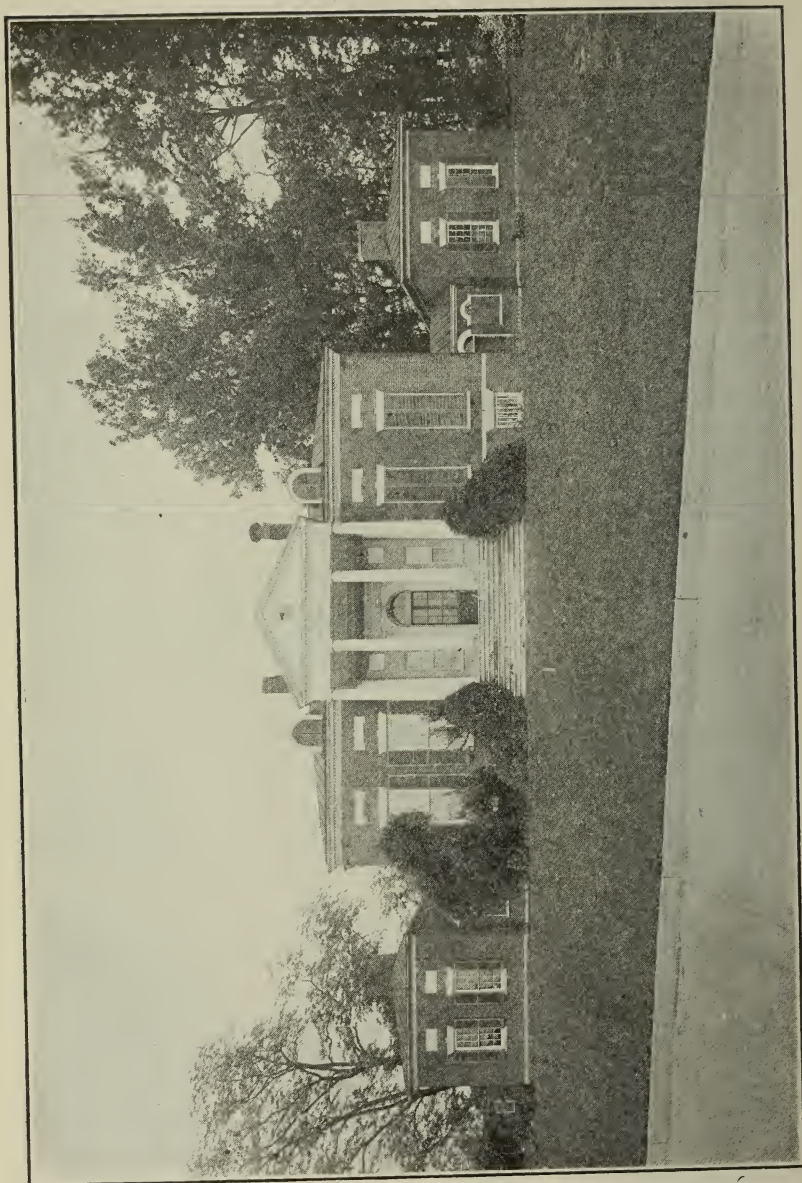
The University is occupying its new buildings at Homewood, a tract of one hundred and twenty acres in the northern part of Baltimore, where the session will be held. Entrances are on North Charles street at 32d and 34th streets. Footpath entrances are through Wyman Park, which lies on the southern and western sides of the grounds.

Homewood is reached from Camden Station (B. & O. Railroad) by the St. Paul Street trolley line cars marked "Guilford-Union Station"; from the Mount Royal Station (B. & O. Railroad) by walking two block east to Charles street, and from Union Station (Pa., N. C., and W. M. Railroads) by the trolley line on Charles street, marked "Roland Park" or "Guilford-Union Station"; and also by the north-bound blue motor-bus on Charles street. One should alight at 32d or at 34th street.

#### EXPENSES

The regular tuition fee is \$30.00, payment of which entitles the student to attend as many as three courses. An additional course, with the exceptions noted in the statements of certain courses, may





THE JOHNS HOPKINS CLUB

be attended, with the approval of the Director, upon the payment of an extra fee of \$12.00. (Under very exceptional circumstances, a student may register in one course only, the tuition fee in such case being \$20.)

The tuition fee for officers and teachers employed in public schools in Maryland, as evidenced by superintendent's certificates, is \$15.00, payment of which entitles such persons to register in two or three courses. Students failing to attend regularly the courses in which they have registered will be subject to the payment of the full fee.

Additional fees are required for materials used in some of the courses. (For details, see statements of courses.)

The fee for the use of the tennis courts at the athletic field, including towel service, is \$2.00. The use of the campus tennis courts is free.

No reduction of fees will be allowed for late entrance or for withdrawal.

Checks will be received in payment of fees when drawn to the order of the Johns Hopkins University. For the convenience of students while in residence at the University, the Treasurer will receive out-of-town checks and drafts for payment upon collection. There is no charge for this service.

#### BOARD AND LODGING

Board will be furnished at the Johns Hopkins Club, located in the Carroll Mansion on the campus. Men and women in attendance are eligible for summer membership, the fee being \$2.00. This fee is payable by all who are not regular members of the Club. Membership cards are issued by the Director upon registration at the University. The Club will open with luncheon, Monday, July 5, and close with dinner Saturday, August 14. Board is furnished at \$10.00 per week. Luncheons are served singly at 55 cents. The dairy lunch room in the Student Activities Building will be open daily during the session.

The University has no dormitories. Furnished rooms in private homes in the vicinity of the University are offered for rent at prices ranging from \$3.00 to \$6.00 per week for a single room. Board can be had in private boarding-houses or in public restaurants at prices ranging from \$7.00 to \$13.00 per week. A printed list of boarding and lodging houses will be sent upon request.

#### FRENCH TABLE AT THE JOHNS HOPKINS CLUB

A table for French conversation will be reserved at the Johns Hopkins Club during the luncheon hour. The table will be in charge of Mrs. R. M. Merrill, a native Parisian, and will offer to members



of the summer courses excellent facilities for practice in this language. The special fee for the reservation of a seat at this table during the thirty days of the session will be \$8.00 a person, if eight persons apply, or \$7.00, if there are ten persons. This fee is in addition to the summer membership fee and to cost of meals. Application should be made before July 6.

#### LECTURES AND RECITALS

In addition to the social opportunities afforded by the opening and closing receptions, students are invited to the lectures and recitals which will be given every Wednesday afternoon and Friday evening, in co-operation with the Summer Session of the Peabody Conservatory of Music.

#### EXCURSIONS

Saturday excursions will be made to Annapolis, the State capital, and Washington, D. C., both within an hour's ride by trolley, and to points of interest in and about Baltimore.

#### THE UNIVERSITY POST-OFFICE AND BOOK-STORE

The University post-office, in Gilman Hall, will be open. Students may have their mail addressed in care of Johns Hopkins University.

The Johns Hopkins Press Book-Store (102 Gilman Hall) supplies officers and students with text books, stationery, and other materials at list prices. The book-store will be open daily.

#### BUREAU OF APPOINTMENTS

The University Bureau of Appointments extends its services *gratis* to the students registered in the Summer Courses. These services include assistance in placing students in academic and non-academic positions. The Director, Dr. French, will be found in his office (303 Gilman Hall) during the session.

#### SUMMER WORK FOR GRADUATES IN MEDICINE

Beginning Tuesday, June 1, and ending Thursday, July 15, a course in medical diagnosis, including laboratory exercises in clinical pathology and demonstrations in pathological anatomy, occupying the greater part of each day, will be offered. The course will be limited to *twenty* students; fee \$100. Applications should be made to the Dean of the Medical School of the University.



## COURSES OF INSTRUCTION

## BIOLOGY

## 1. GENERAL BIOLOGY. Professor ENDERS and Mr. KOHL. C\* 9.30 G 11†

The course is open to all students without previous training in science. Study and comparison, with the aid of the microscope, of typical organisms from the simpler, as amoeba and yeast, to the more complex. The lectures deal with the manner in which plants and animals carry on their activities, and point out our present interpretations and biological theories.

Texts: Abbott, *General Biology* (Macmillan); Enders, *Laboratory Directions in General Biology*.

## 2. ZOOLOGY. Professor ENDERS and Mr. KOHL. C 12.30 G 11

The laboratory work of this course consists of a study of such representative animals as amoeba, hydra, an earthworm, a crayfish, and a frog. The behavior of these animals as well as their structure are studied, including occasional field excursions to streams, forests, and open fields, for the purpose of becoming better acquainted with the habitats of animals. The lectures supplement, for the most part, the work in the laboratory, but a few lectures are devoted to the more general problems of zoological science.

Texts: Hegner, *College Zoology* (Macmillan); Pratt, *Invertebrate Zoology* (Ginn).

## 3. THE TEACHING OF BOTANY IN SECONDARY SCHOOLS. Mr. KOHL. C 11.30 G 11

The course includes laboratory study of plant material with reference to the needs of secondary schools, and a consideration of methods of teaching botany.

Text: Leavitt, *Outlines in Botany* (American Book Co.). Other high school texts will be used for reference.

Laboratory fee: \$1.50, for each course.

NOTE.—Students who completed any of the courses in Biology in former summers and desire to continue in this subject will be assigned new work for which credit will be allowed.

## CHEMISTRY

## 1. ORGANIC CHEMISTRY. Professor GILPIN. G 10.30 C 114

This course is intended for those who have had a thorough training in inorganic chemistry and will be suited to the needs of graduate students and those who wish to prepare for entrance into the Medical School.

Texts: Remsen, *Organic Chemistry* (Heath); Norris, *Organic Chemistry* (McGraw Hill Book Co.).

Laboratory fee: \$10.00.

## 2. QUALITATIVE, OR QUANTITATIVE ANALYSIS. Professor GILPIN. G and C C 20.

For those who have had sufficient preparation, opportunity will be offered for individual laboratory work in either of these subjects.

Laboratory fee: \$7.00.

\* C and G preceding the hour indicate that the course may be offered for collegiate or graduate credit, respectively.

† The final initial and number indicate the building and classroom: G, Gilman Hall; C, Civil Engineering; M, Mechanical Engineering; B. P. I., Baltimore Polytechnic Institute.

### 3. INTRODUCTION TO GENERAL CHEMISTRY. Professor GILPIN. C 11.30 M 110

No previous knowledge of chemistry is required for this course. It will include, as far as possible in the time allowed, a study of the more important non-metallic and metallic elements and their properties. Remsen's *Chemistry* (Briefer Course) will be used as a basis for the class-room and laboratory work.

Laboratory fee: \$7.00.

The fee for materials in the several courses does not include the cost of small pieces of apparatus not returnable, and the charge for breakage to be paid at the close of the session. This additional expense averages about \$2.00.

## CLASSICAL LITERATURE

### GREEK AND LATIN EPIC, LYRIC, AND DRAMATIC POETRY. Associate Professor EBELING. G and C 11.30 G 108

A special study is made of the development of these branches of Greek poetry and their influence on Roman literature. Selected specimens in English translations will be read.

Texts: Fowler, *A History of Ancient Greek Literature* (Appleton); Mackail, *Latin Literature* (Scribner's).

## ECONOMICS

### 1. AMERICAN ECONOMIC HISTORY. Dr. KAYE. G and C 11.30 G 315

Besides dealing with the economic development of the country as such, the effort is made to show how the history of the United States has been influenced by the economic motive. Special attention is given to the economic history of the South.

Text: Bogart, *Economic History of the United States* (Longmans Green & Co.).

### 2. ELEMENTS OF ECONOMICS. Dr. KAYE. C 9.30 G 315

The principles of the science are dwelt upon with the attempt to give the student a general grasp of the subject. Illustrations are drawn as often as possible from economic happenings of the present.

Text: Carver, *Principles of Political Economy* (Ginn).

## EDUCATION

### 1. EXPERIMENTAL EDUCATION: TESTS IN SCHOOL SUBJECTS. Dr. JOHNSON. G 8.30 G 320

This course deals with educational measurements and includes a study of the standardized scales and group survey method of testing pupil achievements in school subjects; the interpretation of statistical data for the determination of the diagnostic value of the tests; and the application of these methods in instructional control. Problems for investigation may be undertaken either in elementary or in secondary education.

The course comprises three lectures and four hours laboratory work per week.

### 2. EXPERIMENTAL EDUCATION: INTELLIGENCE OF SCHOOL CHILDREN. Dr. JOHNSON. G 11.30 G 314

This course in experimental education emphasizes the principles and technique of rating the intelligence of school children, the development and forms of tests, both individual and group, statistical evaluation of data and graphical modes of presentation, with special reference to the application of the results of such measurements in instructional control.

The course comprises three lectures and four hours laboratory work per week.

### 3. EDUCATIONAL PSYCHOLOGY: ADOLESCENCE. Dr. JOHNSON. G and C 10.30 G 320

Discussion of the characteristics of the mental life of the adolescent, the instinctive basis of behavior, and the variations in emotional responses. The significance of these topics for the organization of educational theories and practice will be emphasized.

Lectures, assigned readings and reports.

### 4. SCHOOL HYGIENE. Professor McCOLLUM. G and C 8.30 G 216

This course presents the history of the growth of the movement toward improvement of the physical condition of school children, the methods of detecting sub-normal physical development, the methods of teaching children simple principles of nutrition and personal hygiene, and demonstrates the correlation of this hygienic training with other school activities as a part of a fundamental educational undertaking.

This course is given in cooperation with the School of Hygiene and Public Health, under the auspices of the DeLamar Foundation for the Extension of Medical Knowledge. DeLamar Scholarships have been made available for students registering in this course alone. Application should be made to the Director.

Tuition fee: \$5 for students registering in this course alone.

## Secondary Education

### 5. SECONDARY EDUCATION. Dr. WEGLEIN. G and C 11.30 G 310

This course deals with some of the principal topics in secondary education; the historical development and function of the American high school; comparisons with secondary schools in other countries; the main problems connected with the program of studies; extra class-room activities; supervised study; methods of instruction.

Lectures, required readings, and reports.

### 6. THE JUNIOR HIGH SCHOOL. Dr. WEGLEIN. G and C 9.30 G 310

The reorganization of education, historical survey of the junior high school, articulation of junior high schools with elementary schools and with senior high schools, provision for individual differences, programs of study, problems of administration and supervision.

### 7. THE TEACHING OF LITERATURE IN SECONDARY SCHOOLS. Miss SIMONS. G and C 10.30 G 310

In this course problems in the teaching of literature in both the junior and the senior high schools are considered and solutions suggested. The following problems are discussed: Selecting the masterpiece, teaching the masterpiece, dramatization, imitation, memorizing, the speaking voice, reading aloud, silent reading, outside reading, the magazine, the literature of the war, American literature, the history of literature. Attention is also given to the problems of the supervision of teaching English Literature. Each member of the class is expected to select a problem and submit a solution.

### 8. THE TEACHING OF ENGLISH COMPOSITION IN SECONDARY SCHOOLS. Miss SIMONS. G and C 8.30 G 310

This subject is approached from the point of view of problems stated and solutions proposed. The fields of the junior and the senior high schools are kept in view. The following topics are considered: Grammar, spelling, the sentence, the sentence-group or the paragraph, written work, the letter, correction of themes, the conference, oral work, the speaking voice. Pupils' themes are used as illustrative material. Attention is also given to the problems of the supervision of teaching English composition. As in course 7, each member of the class is expected to select a problem and submit a solution.

In addition to the texts to be announced, courses 7 and 8 will use: *Reorganization of English in Secondary Schools*. Bulletin 1917, No. 2, Bureau of Education, Washington, D. C.; *The English Journal*, ed. J. F. Hosc.

9. THE TEACHING OF ALGEBRA IN SECONDARY SCHOOLS. Dr. RORER.  
G and C 8.30 G 2

Educational values of algebra, its place in the curriculum; courses adapted to the junior and to the senior high schools; discussion of the merits of recent and of well established text books; classroom methods and practice, tests, examinations, important reports and references to journals.

Each student should be provided with some high school algebra and with one of the following reference books: Smith, *The Teaching of Elementary Mathematics* (Macmillan); Young, *The Teaching of Mathematics* (Longmans, Green & Co.); Schultze, *The Teaching of Mathematics in the Secondary School* (Macmillan).

10. THE TEACHING OF GEOMETRY IN SECONDARY SCHOOLS. Dr. RORER. G and C 9.30 G 2

A course similar to Education 9, but dealing with geometry,—both for junior and senior high schools.

Each student should be provided with some high school geometry and either: Smith, *The Teaching of Geometry* (Ginn), or with one of the reference books mentioned in Education 9.

11. THE TEACHING OF HISTORY IN SECONDARY SCHOOLS. Assistant Professor DUNAWAY. G and C 12.30 G 305

This course is designed to meet the needs of teachers of history in the upper grades and in the high school, including the junior high school. Its aim is to furnish instruction in the best methods and materials to be used, with a view to their practical application in the class-room. The principles and methods are developed by the study of approved literature on the subject, lesson plans, maps, devices and helps in recitations, and other aids.

Lectures, readings, reports, and discussions.

12. THE TEACHING OF CIVICS IN SECONDARY SCHOOLS. Assistant Professor DUNAWAY. G and C 9.30 G 305

The purpose of this course is to furnish instruction in the teaching of civics to teachers in the upper grades and in the high school, including the junior high school. It examines from the teacher's viewpoint the place of civics in the curriculum, its relation to the school sciences, and its function in the training for citizenship, as well as directing attention to the machinery of government. Special consideration will be given to the organization of material, teaching helps, and class-room presentation.

Lectures, readings, report, and discussions.

13. THE TEACHING OF BOOKKEEPING AND BUSINESS PRACTICE IN SECONDARY SCHOOLS. Mr. BELDING. G and C 9.30 G 312

This course is designed to aid teachers of these subjects in better organizing their knowledge of subject matter for purposes of teaching. General and specific aims are defined and the means by which these aims may be realized are considered. The various methods of approach are contrasted and teachers will be offered every opportunity to present their own problems for solution.

Text: Belding, *Accounts and Accounting Practice* (American Book Co.).

14. THE TEACHING OF OFFICE TRAINING IN SECONDARY SCHOOLS. Mr. BELDING. G and C 10.30 G 312

This course is intended primarily for teachers of stenography and typewriting who wish to broaden the scope of their work in the class room. The technique of business communications, handling correspondence, orders and purchases, shipping and insurance, banking and financial operations, are among the topics considered.

Texts: McClelland, *Office Training and Standards* (A. W. Shaw Co.); Gal-  
loway, *Office Management* (Ronald Press Co.).

## 15. SUPERVISED STUDY. Miss M. E. SIMPSON. G and C 8.30 G 315

This course is intended primarily for teachers of the junior high and upper grades of the elementary school, but will be of value to teachers of other grades as well as to principals. Various types of supervised study now in operation are explained and studied, including the divided period plan. Special attention is given to: the meaning of study, the evaluation of the course of study with its organization into units of instruction and units of recitation, lesson types with particular emphasis upon the socialized lesson, lesson plans and provision for individual differences existing among pupils.

Readings, reports and discussions.

Texts: Hall-Quest, *Supervised Study* (Macmillan); McMurray, *How to Study* (Houghton Mifflin).

Note: For additional courses presenting material on teaching secondary subjects, see Biology 3, English Composition 1, English Literature 3, Manual Training, and Spanish 2.

*Elementary Education*

## 16. ELEMENTARY DEMONSTRATION SCHOOL. Miss BAMBERGER and Professor BUCHNER. C 12.30 G 112

The purpose of this course is to furnish a practical study of the teaching process in elementary schools by means of systematic observation, conference reports and discussions. The school will include classes of the fourth, fifth, sixth, seventh, and eighth grades, and will be in session from 8.30 a. m. to 12.30 p. m. These classes are open for observation to those registered for this course. The observation of the teaching will begin Monday, July 12.

The requirement of those taking the course for credit (one point) is one conference (12.30 p. m.) and four observation hours per week, with two written reports.

## 17. THE SUPERVISION OF INSTRUCTION IN A COUNTY SCHOOL SYSTEM. Mr. MELCHER and Miss BAMBERGER. G and C 9.30-12.20 G 216

This course for Superintendents and Supervisors of County Schools is conducted in cooperation with the State Department of Education of Maryland. It comprises three sections, A, B, and C, as stated below. It is scheduled to meet in two sessions: the first session, comprising sections A and B, will be held during the first three weeks of the Summer Courses, July 6-July 23; the second session provides for Section C, meeting three weeks in January, 1921. Credit will be allowed for the satisfactory completion of the entire course, as also for any one of the sections.

The summer session includes:

## A. THE USE OF TESTS FOR DIAGNOSTIC PURPOSES. Mr. MELCHER. 9.30-11.20

This section of the course presents the best tests in reading, arithmetic, language, grammar and geography, with special reference to the use of tests for the improvement of class room instruction. Special attention is also given to the problems of how to evaluate tests and how to interpret the results, including both the amount of detailed training that should be given to the individual teacher in scoring, tabulating, and evaluation of the results of educational tests, and the supervisory coordination of such efforts of all the teachers of a county so as to improve the quality of instruction. This work is undertaken with reference to the most effective devices and methods for teaching the elementary school subjects. Attention is given to the employment of those tests which are useful for diagnosing the differences of individual pupils.

## B. METHODS OF INSTRUCTION. Miss BAMBERGER. 11.30-12.20

This course presents the theory and practice of teaching the various subjects in the elementary schools. Topics to be considered will include the selection and organization of subject matter, the method of instruction, and the management of children.

The winter session includes:



## C. THE FOUNDATION OF METHOD.

Note.—Announcement of details concerning the winter session, which will be devoted to the philosophical foundation of methods of instruction, will be made later.

18. SCHOOL MANAGEMENT AND SCHOOL LAW. Miss I. J. SIMPSON.  
C 8.30 G 311

This course is designed for teachers and principals, and includes a study of: classroom organization and routine, the teacher's relation to the curriculum, the problems of discipline and of school attendance, the classification of pupils and provision for individual differences, the formulating of programs, the principles underlying group instruction, provisions for the physical welfare of pupils, the psychology of school incentives, measuring the results of teaching, professional relationships. Special attention is given to the State school law in its relation to the teacher and to the affairs of the school.

19. APPLIED PRINCIPLES OF TEACHING. Miss DEARBORN. C 12.30  
G 314

In this course the theories underlying teaching problems are developed through the making of a definite unit of work. This unit may be in the form of an outline of a problem-project, or it may be a collection of material for a series of specific grade problems. The theory of aims, motives, questioning, choice of subject-matter, sources, evaluation of materials, abilities, skills and measuring results, will parallel the practical application of each topic studied. Outside readings and reports will be required.

Text: Freeland, *Modern Elementary School Practice* (Macmillan).

20. GRAMMAR GRADE METHODS. Miss M. E. SIMPSON. C 12.30  
G 315

This course aims to present the theory and practice of teaching in relation to fifth, sixth, seventh and eighth grades. It includes a study of such factors as the organization of courses of study; programs; time schedules; departmental teaching; classroom management; examinations; tests; methods of instruction with special emphasis upon the project-problem method.

Text: Strayer, *A Brief Course in the Teaching Process* (Macmillan); McMurray, *Teaching by Projects* (Macmillan).

## 21. PRIMARY METHODS. Miss DEARBORN. C 8.30 G 314

This course is planned with four purposes in view: to present the results of late experiments with child-material and subject-matter, to discuss in detail the present trend of methods, to focalize the methods which will produce the best results with the least expenditure of pupil-teacher time and effort, and to provide a clearing-house solution for the method problems of daily teaching. Outside reading will be required.

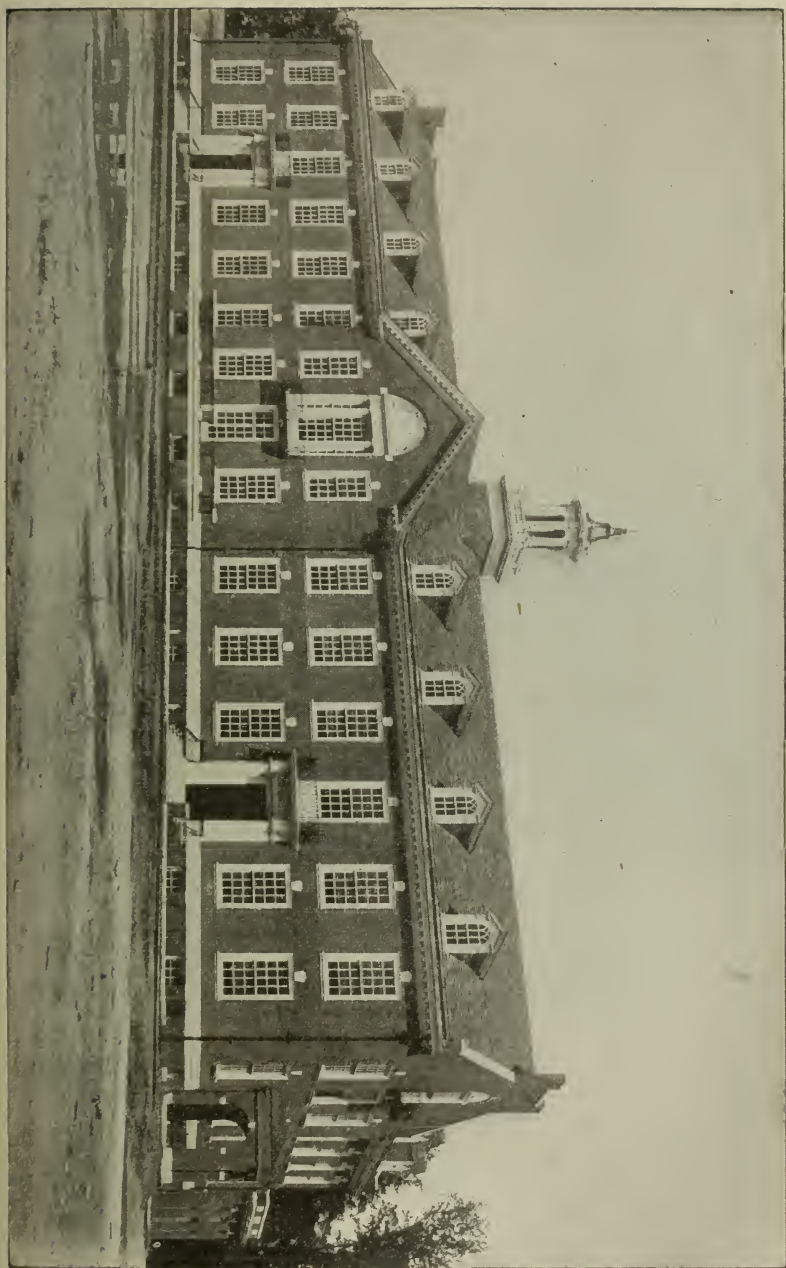
Texts: Earhart, *Types of Teaching* (Houghton Mifflin); Part II of the *Eighteenth Year Book*, the National Society for the Study of Education (Public School Publishing Co.).

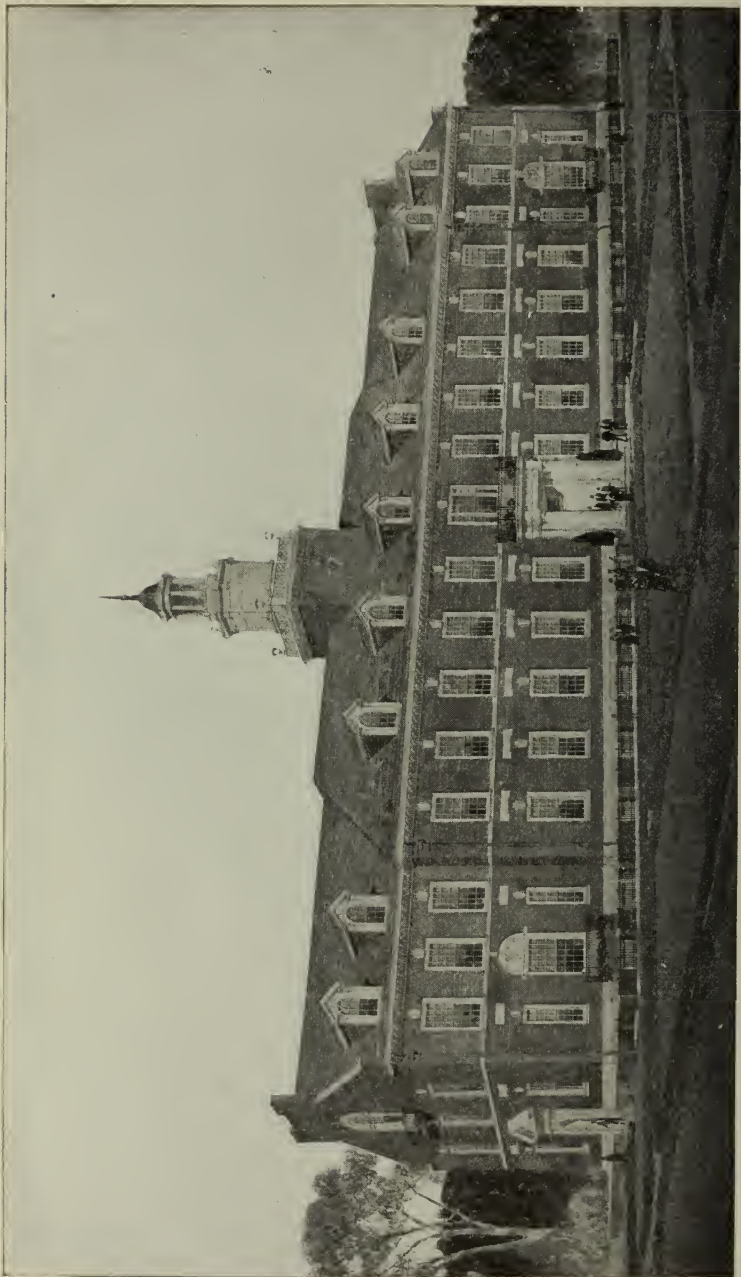
## 22. THE TEACHING OF HISTORY AND GEOGRAPHY IN THE ELEMENTARY SCHOOL. Miss M. E. SIMPSON. C 10.30 G 315

The first part of this course deals with the materials and methods of teaching Geography in the elementary school. Emphasis is placed upon the evaluation of subject matter and its organization into type studies, attention being given to the collection and use of pictures, raw materials, maps and charts that aid in making the work concrete.

The latter part of the course is devoted to the study of History. This involves a consideration of what content should be included in the course of study and the organization of subject matter into Units of Instruction and Units of Recitation. A study is made of some of the most recent history texts, the value of collateral reading, and the place of current events as an important factor in the teaching of history.

Texts: Dodge & Kirchwey, *Teaching of Geography* (Rand, McNally & Co.); Johnson, *Teaching of History* (Macmillan).





CIVIL ENGINEERING BUILDING

### 23. ENGLISH AND LITERATURE IN THE ELEMENTARY SCHOOL. Miss DEARBORN. C 9.30 G 314

The study and discussion in this course aim to bring to the foreground practical ideas concerning the teaching of English and literature in order to best fit the children of the elementary grades for the social, economic, industrial, and cultural needs of life. Examination of present methods and subject-matter will be made to determine the changes needed to bring better equipped pupils to the High Schools, and to eliminate waste of effort and time in securing the desired results. Literature sources and adaptation of stories to the psychological needs of the children will be stressed. Outside reading will be required.

Text: Sheridan, *Speaking and Writing English* (Sanborn).

### 24. RURAL SCHOOL PROBLEMS. Miss I. J. SIMPSON. C 9.30 G 311

A study is made of the rural school as a social as well as an educational problem with a consideration of the data which should be available for its solution. Among the topics to be discussed are school buildings and equipment, the course of study, the purpose and use of text-books, lesson assignments and preparation, supervised study, home lessons, seat work, recreation and playgrounds, and rural hygiene. Special exercises are given in the preparation of material helpful in teaching, such as the daily program, outlines, lesson plans, and plans for term projects.

The work proceeds with reference to the Maryland Elementary Course of Study, and is designed, along with Education 18, to meet the needs of persons wishing to secure the minimum preparation for teaching.

### 25. PROBLEMS IN AMERICANIZATION. C 8.30-10.20 G 313

This course, given in coöperation with the Maryland State Americanization Committee, offers special training for teachers of non-English speaking adults.

Attention is given to the various problems involved in the Americanization movement, including racial, social, and educational features, and especially to methods of teaching English to foreigners. Classes of adults, men and women, conducted in the city by the International Institute of the Young Women's Christian Association and by the Young Men's Christian Association will be available for observation and demonstration.

## ENGLISH COMPOSITION

### 1. GOOD USE. Professor BELDEN. C 11.30 G 113

A study of the principles of authority in language, with special attention to those points of disputed or divided usage which are likely to come up in the teaching of English in secondary schools.

Text: Krapp, *Modern English* (Scribner's).

### 2. THE FORMS OF CONTEMPORARY PROSE WRITING. Associate Professor FRENCH. C 10.30 G 311

(This course is identical with Journalism 1.)

## ENGLISH LITERATURE

### 1. EIGHTEENTH CENTURY LITERATURE. Professor BELDEN. G and C 8.30 G 113.

The chief writers from Dryden to Johnson.

Text: Bronson, *English Poems: The Restoration and the Eighteenth Century* (University of Chicago Press).

### 2. THE POPULAR BALLAD. Professor BELDEN. G and C 9.30 G 113

A study of popular poetry, especially the narrative ballad, with consideration of the chief theories concerning the origins of popular poetry and its relation to the poetry of culture.

Text: Sargent and Kittredge, *English and Scottish Popular Ballads* (Houghton Mifflin).



### 3. AMERICAN VERSE. Associate Professor FRENCH. C 12.30 G 311

A survey of the various types of verse represented in American literature, including the works of contemporary authors. Emphasis will be laid on the poems commonly studied in secondary schools.

Text: Pattee, *Century Readings in American Literature* (The Century Co.).

NOTE.—The full course on American Literature given in the regular session, of which this is approximately the first half, may be completed in the second half-year of the College Courses for Teachers.

## FINE ARTS

Instruction in Fine Arts, given hitherto at Homewood in co-operation with the Maryland Institute of Baltimore, will be conducted at the Institute, Lanvale Street and Mount Royal Avenue, June 21 to July 31. (For separate circular, address Director of the Institute.)

Students matriculated as candidates for a baccalaureate degree may offer these courses for credit. Such credit will be allowed only for the satisfactory completion of double-period courses.

## FRENCH

### 1. MOLIERE. Professor LANCASTER. G and C 8.30 G 205

This course is intended for students who have considerable facility in reading French. The minimum of preparation for entrance is the work outlined in Course 2. Lectures in French, collateral reading, reports in French. Advanced students will do supplementary work.

Texts: Molière, *l'Ecole des femmes* (Oxford); *le Tartuffe* (Oxford); *le Misanthrope* (Heath); *l'Avare* (Heath); *le Bourgeois Gentilhomme* (Heath); *les Femmes savantes* (Macmillan).

### 2. PRACTICAL FRENCH. Professor LANCASTER. C 11.30 G 205

This course is intended for students who have adequate preparation in French Elements. The exercises of the class are conducted in French.

Texts: Bazin, *Contes choisis* (Heath); Daudet, *Tartarin sur les Alpes* (Holt); Comfort, *French Composition* (Heath); Ceri, *French Pronunciation* (Holt).

NOTE.—Attention is called to the provision for the French Table during the session. See page 9.

### 3. ELEMENTARY FRENCH. Professor LANCASTER. C 10.30 G 205

This course is planned for students beginning the study of French. The work consists of a study of the essentials of grammar, drill in pronunciation, composition, and careful reading of texts.

Texts: Olmsted, *Elementary French Grammar* (Holt); Mérimée, *Colomba*, ed. Lamb (Scott, Foresman).

NOTE.—Satisfactory completion of this course will be counted as partial fulfillment of the entrance requirements in French.

In case of sufficient demand, an advanced section of Course 3 will be formed as a course for Intermediate French.

## GERMAN

### 1. ADVANCED GERMAN. Associate Professor ROULSTON. G and C 10.30 G 100

A course in German literature, prose composition and practical exercises, or some phase of readings, is offered, the specific work to be undertaken to be selected in accordance with the interests and needs of students.



## 2. INTERMEDIATE GERMAN. Associate Professor ROULSTON. C 9.30 G 100

Texts: Leskien, *Schuld*, ed. Morgan (Oxford); Rosegger, *Waldheimat*, ed. Fossler (Ginn); Keller, *Kleider machen Leute*, ed. Lambert (Heath).

## 3. ELEMENTARY GERMAN. Associate Professor ROULSTON. C 8.30 G 100

A thorough review of the grammar is given. This course especially meets the needs of those who wish such a review while following more advanced courses.

# HISTORY

## 1. AMERICAN COLONIAL HISTORY TO 1690. Associate Professor BOND. G 11.30 G 305

A seminary course for advanced students which includes a survey of the European background of American colonization, followed by a detailed study of English colonization, and especially of the different types of colonies. The development of colonial institutions in the seventeenth century is also given attention, and the course concludes with a consideration of the revolutionary outbreaks that marked the end of the reactionary colonial policy under the Restoration.

## 2. MODERN EUROPEAN HISTORY, 1789-1920. Associate Professor BOND. G and C 10.30 G 305

This course includes a brief survey of the Revolutionary and Napoleonic Era, followed by a more detailed study of the work of the Congress of Vienna and of European political, social, and economic history from 1815 down to the present.

Stress is laid upon the growth of democracy and nationality in the nineteenth and twentieth centuries, and especially upon the forces since 1870 that led to the Great War. There will be a brief study of the progress of the war, of the peace treaties, and of the problems of reconstruction.

Text: Hazen, *Modern European History*, Rev. Ed., 1919 (Holt).

## 3. AMERICAN HISTORY, 1789-1920. Associate Professor BOND. C 8.30 G 305

A course in American political, social and economic development from the establishment of the Constitution. Special emphasis is laid upon American progress since the Civil War, upon the relation of the United States to the Great War, and upon its present international position.

Texts: *The Riverside History of the United States*; Vol. II, Johnson, *Union and Democracy*; Vol. III, Dodd, *Expansion and Conflict*; Vol. IV, Paxson, *The New Nation* (Houghton Mifflin).

## 4. GREEK HISTORY. Associate Professor EBELING. C 9.30 G 108

The early Ægean civilization, Homeric Age, Colonial expansion, state and national development in Greece, Persian wars, growth of Sparta and Athens, conflicts between aristocracy and democracy. Library readings will be available. Lectures, reports and discussions.

Text: Botsford, *A History of the Orient and Greece* (Macmillan).

# JOURNALISM

## 1. THE FORMS OF CONTEMPORARY PROSE WRITING. Associate Pro- fessor FRENCH. C 10.30 G 311

A study of the rhetorical principles involved in effective writing, as illustrated by the best contemporary journalism. The work of this course will be so planned as to co-operate with Course 2. It may, however, be taken separately.

Text: Cunliffe and Lomer, *Writing of Today*, Rev. Ed. (Century Co.).

## 2. THE PRINCIPLES AND PRACTICE OF JOURNALISM. Mr. PORTER. C 11.30 G 311

This course of lectures on journalism and practical exercises in newspaper work includes discussions of the journalistic style, news stories, the reporter and his work, the departments of a modern newspaper, and the technical processes of publication.

The course is given in co-operation with *The Sun*, Baltimore. A limited number of members of the class will receive appointments on its staff, and will find in Courses 1 and 2 and in the daily routine of the reporter's life, a thorough introduction to modern journalism. Such members of the class as cannot receive these appointments will, nevertheless, have the opportunity to study the making of a newspaper in practice, to use the plant of *The Sun* as a laboratory for such study, and to write under the direction and criticism of a member of its editorial staff.

Three scholarships have been provided by *The Sun* to be awarded to students taking Journalism 1 and 2 and any other related course. Applications, with detailed statements of training and experience, should be filed with the Director prior to Thursday, July 1.

## MANUAL TRAINING

### 1. BENCH WORK IN WOOD. Mr. GAITHER. C 8.30-10.20 B P I M

This course includes the use of tools and bench work in wood in the upper grades of the elementary schools, outlining courses, planning equipments, and methods of individual and class exercises.

Advanced work in both hard and soft woods, and instruction in the use of the following machines is included: grinders, speed lathes, band saw, circular saw, and planer.

Teachers of shop work in junior high schools will find this course most helpful.

Laboratory fee: \$3.50.

Note.—Previous training in this work is not required for admission to this course.

### 2. ELEMENTARY MANUAL TRAINING. Mr. GAITHER. C 11.30 B P I 120

This course includes hand-work processes in paper, cardboard, weaving, raffia, sand table, basketry, bookkeeping and woodwork suitable for the first six years of the elementary schools, and in materials suitable for rural schools.

Those desiring training as playground and recreation leaders will find this course adapted to their needs.

Laboratory fee: \$2.50.

### 3. MECHANICAL DRAWING. Mr. GAITHER. C 10.30 B P I 205

This course is designed to meet the special needs of teachers of mechanical drawing in junior high schools, manual training and vocational schools.

Emphasis is placed on the functional value of mechanical drawing to related subjects.

Laboratory fee: \$2.00. Students will provide their own drawing instruments.

Note.—Students satisfactorily completing courses 1 and 3 will be eligible to take the examination for manual training teachers in Baltimore city schools, provided they are graduates of secondary schools equal in entrance requirements to the secondary schools of Baltimore.

In arranging their schedule, students will note that the courses in Manual Training will be given at the Polytechnic Institute, North Avenue and Calvert Street.

## MATHEMATICS

### 1. ADVANCED MATHEMATICS. Dr. COHEN. G 10.30 G 2

The line of work to be pursued will be selected from the following:

- (a) Geometrical transformations;
- (b) Elliptic functions.
- (c) Finite groups.

2. ANALYTICS. Dr. COHEN. C 11.30 G 2

In case of sufficient demand, calculus will be substituted for this course.

3. TRIGONOMETRY. Dr. COHEN. 12.30 G 2

# MUSIC

The Peabody Conservatory of Music of Baltimore is announcing its summer session of six weeks, July 5 to August 14. Its program includes courses in Singing, Piano, Organ, Violin, 'Cello, Composition, Harmony, Form and Analysis, Interpretation, Piano Pedagogy, Theory, Ear Training, and Musical Literature.

Candidates for the degree of Bachelor of Arts or Science may offer for credit courses in music, when officially reported by the Conservatory as having been satisfactorily completed, in accordance with the plan of co-operation between the University and the Conservatory.

Circulars containing full particulars will be sent on application to either the University or the Conservatory.

# PHILOSOPHY

1. PRAGMATISM. Dr. THALHEIMER. C 10.30 G 113

A survey of the pragmatic movement as developed by James, Schiller, and Dewey.

2. INTRODUCTION TO PHILOSOPHY. Dr. THALHEIMER. C 12.30 G 113

A discussion of some of the problems that have confronted thinkers of all times. Text: Fullerton, *Introduction to Philosophy* (Macmillan).

# POLITICS

1. STATE GOVERNMENT. Assistant Professor LONN. G and C 11.30 G 320

This course studies the framework of our state governments with particular attention to Maryland. Attention is given to recent features, such as the growing power of the governor, the budget, corrupt practices legislation, the short ballot and the direct primary.

Text: Holcombe, *State Government in the United States* (Macmillan).

2. MUNICIPAL GOVERNMENT. Assistant Professor LONN. G and C 12.30 G 320

The organization and administration of city government in the United States, including municipal home rule, commission government, the city manager, the initiative, referendum, and recall.

Text: Munro, *The Government of American Cities* (Macmillan).

# PSYCHOLOGY

1. RESEARCH IN PSYCHOLOGY. Assistant Professor BAGBY. G G 401

Opportunity to conduct experimental investigation is given to students adequately prepared. Laboratory periods of not less than ten hours per week are required.

NOTE.—Students desiring to investigate special problems are requested to communicate with the instructor as early as possible in order that all necessary special apparatus may be on hand at the opening of the session.

2. PSYCHOLOGY OF THE EMOTIONS. Assistant Professor BAGBY.  
G and C 11.30 G 401

The function of the emotions in human behavior will be the chief topic of this course. Types of emotional behavior will be demonstrated in the classroom.

3. INTRODUCTORY PSYCHOLOGY. Assistant Professor BAGBY. C  
10.30 G 401

Beginning the study of the mental life as a function of the reactions of the organism, perception, feeling, and thought are considered in the light of the essential reactions involved. The relation of instinct and habit in behavior will be indicated.

## SPANISH

1. SPANISH LITERATURE. Mr. MERRILL. G and C 9.30 G 103

By lectures and readings a rapid survey of Spanish literature is undertaken, special emphasis being laid on lyric poetry. Any modification of the course necessary to meet the needs of students will be made. Advanced students will do supplementary work.

Texts: Ford, *Spanish Anthology* (Silver, Burdett); Ford, *Main Currents of Spanish Literature* (Holt); Fitzmaurice-Kelley, *Spanish Literature* (Appleton).

2. PRACTICAL SPANISH. Mr. MERRILL. C 8.30 G 103

Spanish is the language of the classroom. The course includes conversational practice and regular exercises in prose composition. The course is also designed to meet the needs of teachers of Spanish in secondary schools, attention being given to the purpose, material and methods of this instruction. A knowledge of Spanish Elements is pre-requisite.

Texts: Wilkins, *First Spanish Book* (Holt); Wilkins, *Spanish in the High Schools: A Handbook of Methods* (Sanborn); Cool, *Spanish Composition* (Ginn).

3. ELEMENTARY SPANISH. Mr. MERRILL. C 12.30 G 103

Grammar, reading, composition, with special stress on pronunciation and oral exercises.

Texts: Bushee, *Fundamentals of Spanish Grammar* (Sanborn); Pittaro, *A Spanish Reader* (Heath), and probably, Ballard and Stewart, *Short Stories for Oral Spanish* (Scribner's).

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## SCHEDULE

### 8.30—9.20

Education 1  
Education 4  
Education 8  
Education 9  
Education 15  
Education 18  
Education 21  
Education 25 (8.30—10.20)  
English Literature 1  
French 1  
German 3  
History 3  
Manual Training 1 (8.30—10.20)  
Spanish 2

### 9.30—10.20

Biology 1  
Economics 2  
Education 6  
Education 10  
Education 12  
Education 13  
Education 17 (9.30—12.20)  
Education 23  
Education 24  
Education 25 (continued)  
English Literature 2  
German 2  
History 4  
Manual Training 1 (continued)  
Spanish 1

### 10.30—11.20

Chemistry 1  
Education 3  
Education 7  
Education 14  
Education 17 (continued)  
Education 22  
English Composition 2  
French 3

German 1  
History 2  
Journalism 1  
Manual Training 3  
Mathematics 1  
Philosophy 1  
Psychology 3

### 11.30—12.20

Biology 3  
Chemistry 3  
Classical Literature  
Economics 1  
Education 2  
Education 5  
Education 17 (continued)  
English Composition 1  
French 2  
History 1  
Journalism 2  
Manual Training 2  
Mathematics 2  
Politics 1  
Psychology 2

### 12.30—1.20

Biology 2  
Education 11  
Education 16 (Conference)  
Education 19  
Education 20  
English Literature 3  
Mathematics 3  
Philosophy 2  
Politics 2  
Spanish 3

### 1.30—4.20

Chemical Laboratory

### 2.30—4.20

Biological Laboratory  
Psychological Laboratory

8.30—12.30 Demonstration School. Classes will be open for observation Monday, July 12.

The hours of Chemistry 2 and Psychology 1 will be arranged.



# THE JOHNS HOPKINS UNIVERSITY

## BALTIMORE

FOUNDED 1876

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A FACULTY OF 350 PROFESSORS, ASSOCIATES, INSTRUCTORS AND LECTURERS

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SUMMER COURSES

JULY 5—AUGUST 12

1921

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BALTIMORE, MARYLAND

PUBLISHED BY THE UNIVERSITY

ISSUED MARCH, APRIL, JUNE, JULY, OCTOBER, NOVEMBER

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MARCH, 1921

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Act of October 3, 1917. Authorized on July 3, 1918

## CALENDAR, 1921

June 21, Tuesday—Commencement Day.

June 27-July 2.       }     9 a. m. to 4 p. m., daily, Registration,  
                                }     Gilman Hall, Homewood.

July 5, Tuesday—8.30 a. m., Instruction in the Summer Courses begins.

July 9, Saturday—Classes meet as usual.

August 12, Friday—Close of Summer Courses.

October 4, Tuesday—Forty-sixth regular session begins.

October 10, Monday—College Courses for Teachers, thirteenth year begins.

October 11, Tuesday—Night Courses for Technical Workers, sixth year begins.

October 17, Monday—Night Courses in Business Economics, sixth year begins.

All work will begin promptly on Tuesday morning, July 5, according to the schedule on page 3 of cover. It is important that students should reach Baltimore in time to be present at the opening exercise of each course which they intend to pursue.

 Registration should be made prior to July 5.

# THE JOHNS HOPKINS UNIVERSITY

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## SUMMER COURSES

1921

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### OFFICERS OF ADMINISTRATION

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*Director of the Summer Courses*

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*Treasurer*

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### INSTRUCTORS

ENGLISH BAGBY, PH. D.

Instructor in Psychology, Yale University.

*Psychology*

LAWRENCE H. BAKER, PH. D.

Instructor in Greek and History.

*Classical Literature and History*

ALICE E. BARNARD, A. M.

Assistant in Secondary Education, Teachers College, Columbia University.

*Education*

LESLIE C. BEARD, JR., A. B.

Assistant in Chemistry.

*Chemistry*

FRANCES M. BERRY, PH. B.

Supervisor of Kindergarten-Primary, Baltimore Public Schools.

*Education*

LLOYD MILLARD BERTHOLF, A. B.

Assistant in Biology.

*Biology*

BEVERLEY W. BOND, JR., PH. D.

Associate Professor of History, University of Cincinnati.

*History*

FOWLER D. BROOKS, A. M.

Associate in Education.

*Education*

CORINNE BROWN, A. M.

Teacher in Tower Hill School, Wilmington, Del.; Instructor in Primary Methods, University of Delaware.

*Education*

EDWARD F. BUCHNER, PH. D.

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WILLIAM BURDICK, M. D. Director, Public Athletic League, Baltimore.	<i>Education</i>
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NIELS H. DEBEL, PH. D. Professor of Political Science, Goucher College.	<i>Political Science</i>
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JOHN DENUES. Supervisor of Music, Baltimore Public Schools.	<i>Public School Music</i>
CARLETON E. DOUGLASS, A. M. Assistant Superintendent of Schools, Baltimore.	<i>Education</i>
LIDA B. EARHART, PH. D. Professor of Elementary Education, University of Nebraska.	<i>Education</i>
AGNES M. FLINN. Leader of Public Athletic League; Instructor in Physical Education, The Park School, Baltimore.	<i>Education</i>
GEORGE M. GAITHER. Supervisor of Manual Training, Baltimore Public Schools.	<i>Manual Training</i>
J. ELLIOTT GILPIN, PH. D. Collegiate Professor of Chemistry.	<i>Chemistry</i>
GEORGE R. HAVENS, PH. D. Assistant Professor of French, Ohio State University.	<i>French</i>
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ARTHUR W. KALLOM, A. M. Assistant Director, Department of Educational Investigation and Measure- ment, Boston Public Schools.	<i>Education</i>
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HOMER P. LITTLE, PH. D. Executive Secretary, Division of Geology and Geography, National Research Council, Washington, D. C.	<i>Geography</i>
FRANCIS E. A. LITZ, A. M. Instructor in English.	<i>English</i>
ELMER V. MCCOLLUM, PH. D. Professor of Bio-Chemistry.	<i>School Hygiene</i>
RAY M. MERRILL, A. M. Instructor in Romance Languages.	<i>Spanish</i>
BROADUS MITCHELL, PH. D. Instructor in Political Economy.	<i>Economics</i>



FRANCIS D. MURNAGHAN, PH. D.	<i>Mathematics</i>
Associate Professor of Mathematics.	
CHARLES A. PETTIT.	<i>Manual Training</i>
Instructor in Carpentry and Pattern Shop, Baltimore Polytechnic Institute.	
WARREN D. RENNINGER, PH. D.	<i>Education</i>
Professor of History, Central High School, Philadelphia, Pa.	
BALLARD D. REMY, A. M.	<i>Education</i>
Principal, Forest Park Junior High School, Springfield, Mass.	
JOSÉ ROBLES Y PAZOS, LIC. EN LET.	<i>Spanish</i>
Instructor in Spanish.	
JONATHAN T. RORER, PH. D.	<i>Education</i>
Head of Department of Mathematics, The William Penn High School for Girls, Philadelphia, Pa.; Instructor in Education, College Courses for Teachers.	
ROBERT B. ROULSTON, PH. D.	<i>German</i>
Associate Professor of German.	
JAMES E. ROUTH, PH. D.	<i>English</i>
Lanier Professor of English, Oglethorpe University.	
MABEL E. SIMPSON.	<i>Education</i>
Director of Elementary Grades and Kindergartens, Rochester Public Schools.	
ALVIN THALHEIMER, PH. D.	<i>Philosophy</i>
Instructor in Philosophy, College Courses for Teachers.	
RAYMOND S. TOMPKINS, LL. B.	<i>Journalism</i>
Editorial Staff of <i>The Sun</i> , Baltimore, Md.	
MAURICE S. H. UNGER, A. M.	<i>Education</i>
Superintendent of Schools, Carroll County, Md.	
DAVID E. WEGLEIN, PH. D.	<i>Education</i>
Associate in Education; Assistant Superintendent of Schools, Baltimore.	
FRANCES ZUILL, A. M.	<i>Home Economics</i>
Supervisor of Home Economics, Baltimore Public Schools.	

## DEMONSTRATION SCHOOL

### KINDERGARTEN AND ELEMENTARY GRADES

ISABEL LAZÁRUS	KINDERGARTEN	M 109
EDITH R. POWELL	GRADE I	M 119
MARGUERITE M. WREDE	GRADE II	M 117
HELEN K. GROTE	GRADE III	M 217
WINIFRED E. BARRETT	GRADE IV	M 202
To be selected	GRADE V	M 206
To be selected	GRADE VI	M 121

### JUNIOR HIGH GRADES

MAUD BROWN	C 114
ETHEL MELVIN	C 115
To be selected	C 117
To be selected	C 215

## GENERAL STATEMENT

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The eleventh year of the Summer Courses of the Johns Hopkins University will open on Tuesday, July 5, and continue until Friday, August 12, inclusive. Exercises in each subject will be held every week-day, Monday to Friday. In addition, on *Saturday, July 9, classes will meet as usual*. Each course will consist of thirty class exercises or their equivalent. In the sciences laboratory work will be additional. Examinations will be held at the close of the session.

As the summer courses are authorized by the Trustees and their credits fixed by the various Faculties, they are an integral part of the work of the University. All the resources of the institution essential to their conduct are placed at the disposal of the students.

The principal object of the University in making provision for the summer work is to furnish instruction to teachers in all grades of schools, and to other persons who seek opportunities for instruction, with or without reference to an academic degree. Some courses offered are designed to meet the needs of graduate and collegiate students who wish to advance their standing or to make up deficiencies; others, to enable non-matriculated students to absolve in part the entrance requirements. Also courses in some subjects not given in the regular session are offered to meet special needs of schools.

### CHARACTER OF INSTRUCTION

The courses maintain the standard of instruction which characterizes the work of the regular session in the subjects representing graduate and collegiate departments, as well as in those introduced to meet the special needs of teachers. In addition to the regular class exercises, instructors hold daily conferences, in which the work of the courses is supplemented and adapted to the particular needs of individuals.

### DEMONSTRATION AND OBSERVATION SCHOOLS

In co-operation with the Baltimore Board of School Commissioners, a demonstration elementary and junior high school will be conducted as a means of affording illustrative material for the courses in education. This school will comprise two sections: one, an elementary department, consisting of a kindergarten and grades one to six, inclusive; the other, a junior high department, providing instruction

in important subjects in grades seven, eight and nine. This will be one of the city vacation schools in which pupils will be given an opportunity to secure promotion at the beginning of the next school year. Children whose parents are residents of Baltimore will be permitted to attend this school free of all charges for tuition and material of instruction.

Other city elementary and secondary vacation schools will be open during the session and available for observation in connection with the courses in elementary and secondary education.

#### SELECTION OF COURSES

Candidates for advanced degrees should arrange their programs in consultation with the departments in which their principal subjects lie. New students expecting to become candidates should present their cases to the Director.

Candidates for a baccalaureate degree should consult with the College Dean or the Director prior to the opening of the session, in the selection of courses that will meet requirements for the degree.

Students seeking credit that will enable them to meet in part or in full the requirements of state and city certificates, should select their academic and professional courses in accordance with the regulations in force under the Board of Education or of Examiners to whom their record will be submitted for acceptance.

#### ACADEMIC CREDIT

Graduate courses, leading to the degree of Master of Arts, will be credited by the respective departments in accordance with this rule of the Board of University Studies: the requirement of one of the two years of residence for this degree may be met by attendance and study in three sessions of the Summer Courses. These courses are designated by *G*.

Students matriculated as candidates for any of the baccalaureate degrees will receive credit for the satisfactory completion of those courses designated by *C*. In general the same credit is given per hour as in the regular college courses, *e. g.*, a lecture course of thirty hours has a credit of two "points," or one-third of the credit for a course of three hours per week through the college year. Provided, however, the student follows but two courses, an additional credit may be given. The exact amount of additional credit in each course is determined by the instructor according to the work accomplished, subject to the approval of the Director, but in no case will an additional credit to exceed fifty per cent. be given, nor can a total credit

of more than eight points be allowed a student in one summer session.

Students not matriculated in the University will receive certificates indicating the amount of work satisfactorily performed. These certificates will indicate the value of the work done in each course, and will be accepted by State, County, and City Superintendents and Boards of Examiners in the extension or renewal of teachers' certificates, according to law.

#### ADMISSION AND ATTENDANCE

There are no formal examinations for admission. Students, both men and women, will be admitted to such courses as they are found qualified by the respective instructors to pursue with advantage.

The session will open promptly on July 5, carrying out the schedule provided on page 3 of cover. The Registrar's office (219 Gilman Hall) will be open for registration daily from Monday, June 27, to Saturday, July 2, from 9 a. m. to 4 p. m. After July 7, admission to each course will be restricted to registered students. With the consent of the Director, students may make changes in their courses, which must be reported *in person* to the Registrar, up to and including July 7. After this date no change of courses will be permitted.

All fees, including both tuition and special laboratory fees, *must* be paid to the Treasurer *immediately* as an item in registration. Attention is called to the fee of \$3.00 for the privilege of registration after July 5.

#### NEW LOCATION

The University is occupying its new buildings at Homewood, a tract of one hundred and twenty acres in the northern part of Baltimore, where the session will be held. Entrances are on North Charles street at 32d and 34th streets. Footpath entrances are through Wyman Park, which lies on the southern and western sides of the grounds.

Homewood is reached from Camden Station (B. & O. Railroad) by the St. Paul Street trolley line cars marked "Guilford-Union Station"; from the Mount Royal Station (B. & O. Railroad) by walking two blocks east to Charles street; and from Union Station (Pa., N. C., and W. M. Railroads) by the trolley line on Charles street, marked "Roland Park" or "Guilford-Union Station"; and also by the north-bound blue motor-bus on Charles street. One should alight at 32d or at 34th street.





## EXPENSES

The regular tuition fee is \$30.00, payment of which entitles the student to attend as many as three courses. An additional course, with the exceptions noted in the statements of certain courses, may be attended, with the approval of the Director, upon the payment of an extra fee of \$12.00. (Under very exceptional circumstances, a student may register in one course only, the tuition fee in such case being \$20, unless otherwise noted in the statement of any particular course.)

The tuition fee for officers and teachers employed in public schools in the counties of Maryland, as evidenced by superintendent's certificates, is \$15.00, payment of which entitles such persons to register in two or three courses. Students failing to attend regularly the courses in which they have registered will be subject to the payment of the full fee.

*Failure to register and pay tuition and laboratory fees before the close of July 5 will entail an additional fee of \$3.00.*

**Registration and payment of fees should be made in person or by mail in advance of the opening of the session.**

Additional fees are required for materials used in some of the courses. (For details, see statements of courses.)

No reduction of fees will be allowed for withdrawal after July 6th.

Checks will be received in payment of fees when drawn to the order of the Johns Hopkins University. For the convenience of students while in residence at the University, the Treasurer will receive out-of-town checks and drafts for payment upon collection. There is no charge for this service.

## BOARD AND LODGING

Board will be furnished at the Johns Hopkins Club, located in the Carroll Mansion on the campus. Men and women in attendance are eligible for summer membership, the fee being \$2.00. This fee is payable by all who are not regular members of the Club. Membership cards are issued by the Director upon registration at the University. The Club will open with luncheon, Monday, July 4, and close with dinner, Saturday, August 13. Board is furnished at \$9.00 per week. Luncheons are served singly at 50 cents. The dairy lunch room in the Student Activities Building will be open daily during the session.

The University has no dormitories. Furnished rooms in private homes in the vicinity of the University are offered for rent at prices ranging from \$3.00 to \$7.00 per week for a single room. Board can

be had in private boarding-houses or in public restaurants at prices ranging from \$8.00 to \$13.00 per week. A printed list of boarding and lodging houses will be sent upon request.

#### LECTURES AND RECITALS

In addition to the social opportunities afforded by the opening and closing receptions, students are invited to the lectures and recitals which will be given every Wednesday afternoon and Friday evening, in co-operation with the Summer Session of the Peabody Conservatory of Music.

#### EXCURSIONS

Saturday excursions will be made to Annapolis, the State capital, and Washington, D. C., both within an hour's ride by trolley, and to points of interest in and about Baltimore.

#### THE UNIVERSITY POST-OFFICE AND BOOK-STORE

The University post-office, in Gilman Hall, will be open. Students may have their mail addressed in care of Johns Hopkins University.

The Johns Hopkins Press Book-Store (102 Gilman Hall) supplies officers and students with text books, stationery, and other materials at list prices. The book-store will be open daily.

#### BUREAU OF APPOINTMENTS

The University Bureau of Appointments extends its services *gratis* to the students registered in the Summer Courses. These services include assistance in placing students in academic and non-academic positions. The Director, Dr. French, will be found in his office (303 Gilman Hall) during the session.

#### SUMMER WORK FOR GRADUATES IN MEDICINE

Beginning Tuesday, June 6th, and ending Thursday, July 16th, a course in medical diagnosis, including laboratory exercises in clinical pathology and demonstrations in pathological anatomy, will be offered. The course will be limited to *twenty* students, fee \$100. Applications should be made to the Dean of the Medical School of the University.

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## COURSES OF INSTRUCTION

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### EXPLANATION OF SYMBOLS IN TITLES OF COURSES.

C and G preceding the hour indicate that the course may be offered for collegiate and graduate credit, respectively.

The final initial and number indicate the building and classroom: G, Gilman Hall; C, Civil Engineering; M, Mechanical Engineering; B. P. I., Baltimore Polytechnic Institute.

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### BIOLOGY

1. GENERAL BIOLOGY. Associate Professor COWLES and Mr. BERTHOLF. C 9.30 G 11

The course is open to all students without previous training in science. Study and comparison, with the aid of the microscope, of typical organisms from the simpler, as amoeba and yeast, to the more complex. The lectures deal with the manner in which plants and animals carry on their activities, and point out our present interpretations and biological theories.

Texts: Abbott, *General Biology* (Macmillan); Andrews, *Laboratory Directions in General Biology and Embryology* (Johns Hopkins Press).

2. ZOOLOGY. Associate Professor COWLES and Mr. BERTHOLF. C 12.30 G 11

The laboratory work of this course consists of a study of such representative animals as amoeba, hydra, an earthworm, a crayfish, and a frog. The behavior of these animals as well as their structure is studied, including occasional field excursions to streams, forests, and open fields, for the purpose of becoming better acquainted with the habitats of animals. The lectures supplement, for the most part, the work in the laboratory, but a few lectures are devoted to the more general problems of zoological science.

Texts: Hegner, *College Zoology* (Macmillan); Pratt, *Invertebrate Zoology* (Ginn).

Laboratory fee: \$1.50, for each course.

### CHEMISTRY

1. ORGANIC CHEMISTRY. Professor GILPIN and Mr. BEARD. G M 104 10-10.50 and 11-11.50; Laboratory, 12.30-4.20

This course is intended for those who have had a thorough training in inorganic chemistry and will be suited to the needs of graduate students who have not had a systematic course in organic chemistry, and also to those who wish to prepare for entrance to the Medical School or to the School of Hygiene. In order to satisfy the requirements of these schools, the course will consist of two hours lectures and four hours laboratory work daily.

Texts: Remsen, *Organic Chemistry* (Heath); Norris, *Laboratory Manual of Organic Chemistry* (McGraw Hill Book Co.).

Laboratory fee: \$12.00.

2. QUALITATIVE ANALYSIS. Professor GILPIN and Mr. BEARD. G and C C 20

For those who have had sufficient preparation, opportunity will be offered for individual laboratory work in qualitative analysis. Laboratory is open from 10 a. m. to 4.20 p. m.

Laboratory fee: \$7.00.

3. QUANTITATIVE ANALYSIS. Professor GILPIN and Mr. BEARD. G and C C 20

For those who have had sufficient preparation, opportunity will be offered for individual laboratory work in quantitative analysis. Laboratory is open from 10 a. m. to 4.20 p. m.

Laboratory fee: \$7.00.

4. INTRODUCTION TO GENERAL CHEMISTRY. Professor GILPIN and Mr. BEARD. C 12.30 M 104

No previous knowledge of chemistry is required for this course. It will include, as far as possible in the time allowed, a study of the important non-metallic and metallic elements and their properties.

Text: McPherson and Henderson, *A Course in General Chemistry* with laboratory manual (Ginn).

Laboratory fee: \$7.00.

The fee for materials in the several courses does not include the cost of small pieces of apparatus not returnable, and the charge for breakage to be paid at the close of the session. This additional expense averages about \$2.00.

CLASSICAL LITERATURE

OUTLINE OF GREEK LITERATURE. Dr. BAKER. G and C 11.30 G 108

A rapid survey will be made of Greek literature from Homer to Theocritus. Selected translations will be read and Greek influence upon Roman and English literature will be indicated.

Text: Wright, *Greek Literature* (American Book Co.).

ECONOMICS

1. SOCIAL LEGISLATION. Dr. MITCHELL. G and C 10.30 G 315

This course finds its basis in English experience—the history of child labor, the factory acts, and the poor law. Reference will, however, constantly be had to American legislation. In the last lectures some peculiarly present-day problems will be discussed.

2. ECONOMIC HISTORY OF ENGLAND. Dr. MITCHELL. C 9.30 G 315

The ways in which economic happenings and tendencies influenced the life of the people will be shown, and the relationship between economic history and economic thought will be dwelt upon. The period covered will be that from the earliest times through the industrial revolution.

Text: Ashley, *Industrial Organization of England* (Longmans, Green & Co.).

3. ELEMENTS OF POLITICAL ECONOMY. Dr. MITCHELL. C 12.30 G 315

This course undertakes a simple statement of the fundamental principles of the science, to equip the student to make some analysis of his economic environment. Besides such topics as profits, interest, rent, wages, business organization, foreign trade, money and taxation, time will be devoted to labor problems and current proposals for social reform.

Text: Clay, *Economics for the General Reader* (Macmillan).

EDUCATION

1. EDUCATIONAL ADMINISTRATION. Mr. KALLOM. G 12.30 G 212

Attention is given to the recent developments in the treatment of administrative problems of school systems. The topics to be considered include making a school budget, salary schedule, merit basis of teacher promotion, administrative uses of intelligence and performance tests, the reorganization of school systems and courses of study, with special attention to the present administrative problems of members of the class. The presentation of a report of the results of an intensive study of a particular problem is expected of each member.

2. EXPERIMENTAL EDUCATION: TESTS IN SECONDARY SCHOOL SUBJECTS. Mr. KALLOM. G 11.30 G 216

A study of scales and tests in English, United States history, civics, mathematics, geography and other subjects, available for guidance in instructional control in the junior and senior high school.

Three lectures and four hours laboratory work per week.

3. EXPERIMENTAL EDUCATION: TESTS IN ELEMENTARY SCHOOL SUBJECTS. Mr. KALLOM. G 9.30 G 216

A critical study of the standardized scales and group survey method of testing pupil achievements in elementary school subjects; interpretation of the statistical data; relation of the results to intelligence levels; corrective material for use in the school room. Special material will be derived from tests given in the Demonstration School.

Three lectures and four hours laboratory work per week.

Text: Wilson and Hoke, *How to Measure* (Macmillan).

4. EXPERIMENTAL EDUCATION: INTELLIGENCE OF SCHOOL CHILDREN. Mr. BROOKS. G 8.30 G 212

This course presents the following topics: principles and technique of rating the intelligence of school children; the development and forms of intelligence tests, both individual and group; statistical evaluation and graphical presentation of data; interpretation and application of results with special reference to the classification and instruction of children. Provision is made for practice in giving and scoring tests.

Three lectures and four hours laboratory work per week.

Text: Terman, *The Measurement of Intelligence* (Houghton Mifflin).

5. EDUCATIONAL PSYCHOLOGY: SECONDARY SCHOOL SUBJECTS. Mr. BROOKS. G 12.30 G 216

Analysis of the learning processes in the following junior and senior high school subjects: English, foreign languages, mathematics (arithmetic, algebra, and geometry), science, history, and manual arts.

Lectures, readings and reports.

Text: Judd, *The Psychology of the High School Subjects* (Ginn).

6. EDUCATIONAL PSYCHOLOGY: ELEMENTARY SCHOOL SUBJECTS. Mr. BROOKS. G and C 10.30 G 216

Analysis of the learning processes with special reference to reading and arithmetic; some attention given to handwriting, drawing, language and composition.

Four lectures and two hours laboratory work per week.

Texts: Thorndike, *Psychology of Arithmetic* (Macmillan); Freeman, *The Psychology of the Common Branches* (Houghton Mifflin).

7. SCHOOL HYGIENE. Professor MCCOLLUM. G and C 8.30 G 216

This course is based upon a critical examination of the published literature disseminated for the guidance of teachers, nurses and health workers whose activities are directed toward improving the physical condition of children of pre-school and school ages. The object will be to enable the teacher and school official to judge concerning the relative importance of the several factors which relate to physical development and the promotion of health.

This course is given in coöperation with the School of Hygiene and Public Health, under the auspices of the De Lamar Foundation for the Extension of Medical Knowledge. De Lamar Scholarships have been made available for students registering in this course alone. Application should be made to the Director before July 1.

Tuition fee: \$5, for students registering in this course alone.



*Secondary Education*

8. SECONDARY EDUCATION. Dr. WEGLEIN. G and C 9.30 G 310

This course deals with some of the principal topics in secondary education; the historical development and function of the American high school; comparisons with secondary schools in other countries; the main problems connected with the program of studies; extra class-room activities; supervised study; methods of instruction.

Text: Inglis, *Principles of Secondary Education* (Houghton Mifflin).

Note:—The full course on Secondary Education given in the regular session, of which this is approximately the first half, may be completed in the second half-year of the College Courses for Teachers.

9. THE TEACHING OF ENGLISH COMPOSITION IN SECONDARY SCHOOLS.  
Miss BARNARD. G and C 1.30 G 310

In this course is included the study of theme subjects, methods of making assignments, criticism and rating of papers, the conference, texts, and other matters vital to effective composition teaching. The aims of composition teaching and means for measuring the results of teaching are considered.

10. THE TEACHING OF ENGLISH LITERATURE IN SECONDARY SCHOOLS.  
Miss BARNARD. G and C 11.30 G 310

This course includes a consideration of the materials and the methods to be used in the teaching of literature in secondary schools. Various problems are discussed and solutions suggested. The course is carried on by means of lectures, discussions, outside reading, making of model lessons.

11. THE TEACHING OF ALGEBRA AND GEOMETRY IN SECONDARY SCHOOLS. Dr. RORER. G and C 1.30 G 2

Educational values and place in the curriculum; courses adapted to senior high schools; discussion of the merits of recent and of well-established texts; class-room methods and practice; important reports and references to journals; diagnostic tests and their use.

Each student should be provided with some high school algebra and geometry, and with one of the following reference books: Smith, *The Teaching of Elementary Mathematics* (Macmillan); Young, *The Teaching of Mathematics* (Longmans, Green & Co.); Schultze, *The Teaching of Mathematics in the Secondary School* (Macmillan).

12. THE TEACHING OF HISTORY IN SECONDARY SCHOOLS. Professor  
RENNINGER. G and C 1.30 G 305

This course is designed to meet the needs of teachers of history in secondary schools. Its aim is to furnish instruction in the best methods and materials to be used, with a view to their practical application in the class-room. The principles and methods are developed by the study of approved literature on the subject, lesson plans, maps, devices and helps in recitations, and other aids.

Lectures, readings, reports, and discussions.

13. THE TEACHING OF CIVICS IN SECONDARY SCHOOLS. Professor  
RENNINGER. G and C 9.30 G 305

The purpose of this course is to furnish instruction in the teaching of civics to teachers in secondary schools. It examines from the teacher's viewpoint the place of civics in the curriculum, its relation to the school sciences, and its function in the training for citizenship, as well as directing attention to the machinery of government. Special consideration will be given to the organization of material, teaching helps, and class-room presentation.

Lectures, readings, reports, and discussions.

14. THE TEACHING OF SCIENCE IN THE SENIOR HIGH SCHOOL. Mr. DENSLOW. G and C 11.30 C 5

The aim of this course is to aid teachers of biology, chemistry, and physics in senior high schools by interpreting the current movements in instruction in science. Practical help is offered to the inexperienced teacher in the daily problems of class-room and laboratory management, text-book selection, and care of equipment.

Students should have in hand *Re-organization of Science in Secondary Schools*, Bulletin, 1920, No. 26, Bureau of Education, Washington, D. C.

15. THE JUNIOR HIGH SCHOOL. Mr. REMY. G and C 10.30 G 310

The reorganization of education, historical survey of the junior high school, articulation of junior high schools with elementary schools and with senior high schools, provision for individual differences, programs of study, problems of administration and supervision.

Text: Briggs, *The Junior High School* (Houghton Mifflin).

16. MATERIALS AND METHODS IN THE JUNIOR HIGH SCHOOL. Mr. REMY. G and C 8.30 G 310

This course considers: the subject matter of instruction necessary to fulfill the aims and purposes of this type of school; combination of subjects into programs of study; methods of teaching in general, and as applied to different subjects; problem and project method; socialized recitation; supervised study. A small amount of time is devoted to discussing the problems of the teacher peculiar to this type of organization.

Text: Strayer and Norsworthy, *How to Teach* (Macmillan).

17. THE TEACHING OF MATHEMATICS IN THE JUNIOR HIGH SCHOOL. Dr. RORER. G and C 9.30 G 2

This course gives detailed attention to the teaching of junior high school mathematics based upon the latest courses of study, texts, current reports, and the use of diagnostic mathematical tests. Special consideration will be given to the Baltimore course in mathematics for junior high schools.

Each student should be provided with one or more sets of the junior high school mathematics texts now on the market.

18. THE TEACHING OF GENERAL SCIENCE IN THE JUNIOR HIGH SCHOOL. Mr. DENSLOW. G and C 1.30 C 5

The history of the development of the course in general science in secondary schools; the justification of the course; comparison of the various types of general science courses in junior high schools; comparison of methods in present practice; the relative merits of textbooks; practical exercises and demonstration lessons.

19. THE TEACHING OF GEOGRAPHY IN THE JUNIOR HIGH SCHOOL. Professor HUBBARD. G and C 10.30 C 5

A study of regional geography through selected types is the basis of the course. Among the topics considered are: division of the continents into regional units; the human geography of selected regions; the formation and solution of problems; the use of outline maps and other supplementary material. Attention is given to methods of teaching topics in mathematical geography in which teachers usually experience difficulty, such as seasons, latitude, longitude, time relations, and also to the new geographic boundaries of countries affected by the peace treaties. Students are assigned work involving application of the methods discussed. Practical field work is offered.

20. SUPERVISED STUDY IN THE JUNIOR HIGH SCHOOL. Miss SIMPSON. G and C 12.30 C 202

This course is intended primarily for teachers of the junior high school, but will be of value to teachers of other grades as well as to principals. Various types of supervised study now in operation are explained and studied, including the divided period plan. Special attention is given to: the meaning of study; the evaluation of the course of study with its organization into units of instruction and units of recitation; lesson types with particular emphasis upon the socialized lesson; lesson plans and provision for individual differences; preparation in the sixth grade for supervised study in the junior high school.

21 A. DEMONSTRATION SCHOOL: JUNIOR HIGH GRADES. Professor BUCHNER and Dr. WEGLEIN. G and C 12.30 M 114

Demonstration lessons in many of the subjects taught in grades seven, eight, and nine. A description of the requirements for credit for this course is given in Education 21 B.

The conferences, 12.30 p. m., will begin Tuesday, July 5, and the observation of teaching, Wednesday, July 6.

NOTE.—For additional courses presenting material on teaching secondary school subjects see: *English Literature 1 and 3; French 3; Geography 2; Home Economics 1 and 2; Manual Training 1, 2, 3, 4, and 5; Music 2; Spanish 2.*

*Elementary Education*

21 B. DEMONSTRATION SCHOOL: ELEMENTARY GRADES. Professor BUCHNER and Dr. WEGLEIN. C 12.30 M 114

The purpose of this course is to furnish a practical study of the teaching process by means of systematic observation, conferences, and reports. The school will be in session daily from 8.30 a. m. to 12.20 p. m. These classes are open for observation *only* to those registered for this course. The elementary department will include a kindergarten and grades one, two, three, four, five, and six.

The requirement for those taking the course for credit (one point) is a total of six conferences (12.30 p. m.), twenty-four observation hours, and two written reports. The two written reports must be filed in the office of the Director, 217 Gilman Hall, *not later than Monday, August 8.* Reports filed after this date will not be accepted.

The conferences, 12.30 p. m., will begin Tuesday, July 5, and the observation of teaching, Wednesday, July 6.

22. THE ORGANIZATION AND SUPERVISION OF CITY ELEMENTARY SCHOOLS. Mr. DOUGLASS. C 11.30 G 312

This course considers the principal as a supervisor, and as a social and an educational agent. The chief topics are: the making of courses of study; classification and promotion of pupils; departmental teaching; types of supervision; school statistics; extra-classroom activities; health; play; relation of school to home and community.

23. SCHOOL MANAGEMENT AND SCHOOL LAW. Mr. UNGER. C 8.30 G 311

This course is designed to meet the needs of teachers who wish to qualify as principals, to improve principals in service, and to give teacher and principal a perspective of a properly organized school in a county system. It includes a consideration of the Report on the Cardinal Principles of Secondary Education, the six-three-three plan of school organization, the elements of curricula-making, the consideration of a well-balanced daily and weekly program, the supervision of the school, measuring the achievements of children and a study of teachers' marks, attendance and retardation, discipline and punishment, extra-curricular activities, the health of the school-child, school administration, and the principal's responsibility under the Maryland School Law.

Text: Finney and Schaffer, *Administration of Village and Consolidated Schools* (Macmillan).

24. TYPES OF TEACHING AND TEACHING HOW TO STUDY. Professor EARHART. C 11.30 C 202

Discussion and illustration of types of teaching exercises in the elementary school; nature of study, and training pupils in right habits of study; illustrative lessons observed.

25. INTERMEDIATE GRADE METHODS. Mr. DOUGLASS. C 1.30 G 311

This course aims to present the theory and practice of teaching in the upper grades of the elementary school. The topics include: characteristics and needs of children; individual differences; motivation of school work; socializing the recitation and the school; type lessons; methods of instruction with special emphasis upon the uses of the problem and the project; testing pupil achievements.

26. THE TEACHING OF READING IN THE INTERMEDIATE GRADES. Miss SIMPSON. C 10.30 G 314

In the consideration of the problems of teaching reading in the upper grades of the elementary school, special phases of the study of reading are considered: psychology, pedagogy and hygiene of reading; specific aims and attainments for each grade; the choice of material: basal texts and supplementary material; dictionary study; determination of quality and rate; standardized and informal tests; diagnosis of individual difficulties; remedial measures.

Texts: Huey, *The Psychology and Pedagogy of Reading* (Macmillan); Klapper, *The Teaching of Reading* (Appleton).

27. ENGLISH LITERATURE AND LANGUAGE IN THE INTERMEDIATE GRADES. Professor EARHART. C 9.30 G 314

The special fields of oral English, composition, and literature, and the problems of each; selection and use of materials in the intermediate grades; the use of motives or projects in English teaching; standards of accomplishment; lessons observed and discussed.

Lectures, assigned readings, and reports.

28. ARITHMETIC IN THE GRADES. Professor EARHART. C 12.30 G 310

Selection of material to be taught; basis for rejection; adaptation of subject-matter to the grades; teaching mechanical processes; teaching processes involving reasoning; socializing the content of arithmetic; possibilities of economizing time; lessons observed and discussed.

Lectures, assigned readings, and reports.

29. THE TEACHING OF GEOGRAPHY IN THE INTERMEDIATE GRADES. Professor HUBBARD. C 1.30 C 105

The importance and place of home geography in relation to the development of the subject; the content and method of observational field work; sources and use of illustrative material and the importance of visual instruction; interpretation of the various kinds of maps; methods of approach in the presentation of topics; the use of simple projects for motivating work; the correlation of geography and history.

30. THE TEACHING OF HISTORY AND CIVICS IN THE INTERMEDIATE GRADES. Miss SIMPSON. C 8.30 G 314

This course is for teachers of the upper grades of the elementary school. The theory and practice of teaching history and civics are reviewed. Specific aims and attainments for each grade are formulated. Courses of study are analyzed and units of subject-matter organized for each grade. A study is made of some of the most recent texts. The value of collateral reading is discussed and the place of current events in its relation to the teaching of history and civics in these grades is considered.

Text: Johnson, *Teaching of History* (Macmillan).

31. MATERIALS AND METHODS IN KINDERGARTEN-PRIMARY EDUCATION. Miss BERRY. C 8.30 G 112

The purposes of this course are: first, to study children's characteristics and thereby determine their needs; second, to select subject-matter, materials, and methods which will meet these needs.

Texts: Each student is expected to be provided with at least one of the following: Johnson, *Education by Plays and Games* (Ginn); Terman, *Hygiene of the School Child* (Houghton Mifflin); Norsworthy and Whitley, *Psychology of Childhood* (Macmillan); Gesell, *The Normal Child and Primary Education* (Ginn).

32. PRIMARY GRADE METHODS. Miss BERRY. C 11.30 G 112

This course considers: first, manual, industrial, and social activities appropriate to the primary school period; second, school subjects as vitalized by free and self-directed activities.

Texts: Each student should be provided with one of the following: Gesell, *The Normal Child and Primary Education* (Ginn); Dewey, *The Child and the Curriculum* (Univ. of Chicago Press).



33. THE TEACHING OF READING IN THE PRIMARY GRADES. Miss BROWN. C 10.30 G 312

This course includes a study of the hygiene, psychology, and methods of teaching reading and its allied branches in the first three grades.

34. THE TEACHING OF LITERATURE IN THE PRIMARY GRADES. Miss BROWN. C 12.30 G 314

This course offers a study of the problems of teaching literature in the primary grades, including types of material such as folk-lore, myth, legend, fable, modern stories, rhymes, poems, ballads, and their sources.

35. RURAL SCHOOL PROBLEMS. Mr. UNGER. C 9.30 G 311

In this course the rural school, both as a social and an educational problem, and the data available for its solution are considered. Among the topics discussed are: buildings and equipment; recreation and playgrounds; rural hygiene; texts; lesson assignments and preparation; study; seatwork; lesson plans; the daily program; the alternation schedule; standard tests.

This consideration of the teaching of the elementary school subjects is conducted with reference to the Maryland Elementary Course of Study, and is designed, along with Education 23, to meet the minimum preparation for teaching specified in the State law.

Texts: Rapeer and others, *The Teaching of Elementary School Subjects* (Scribner's); Wilkinson, *Rural Schools* (Silver, Burdette & Co.).

36. PHYSICAL EDUCATION: PRINCIPLES AND PRACTICE. Dr. BURDICK, and Miss FLINN. C 1.30 M 101

This course is planned for those principals and teachers who desire their pupils to be happy children with healthy bodies. Half of the course is devoted to lectures on the nature of play, recreation, and athletics, their relation to general education, and the value of games for school discipline. The other half of the course consists of demonstrations of the principles discussed by means of games and athletics with the pupils of the Demonstration School.

Readings: Gulick, *A Philosophy of Play* (Scribner's); Lee, *Play in Education* (Macmillan); Johnson, *Education by Plays and Games* (Ginn).

37. PHYSICAL EDUCATION: GAMES AND ATHLETICS. Miss FLINN. C 2.30-4.20 M 101

This course aims to prepare teachers to become actual leaders in the plays and games of children, and in the athletics of boys and girls. Supervised play; organized recesses; school-room games; after-school athletics.

Each student will personally practice plays, games, and athletics. Simple gymnasium suits will be needed.

Text: Bancroft, *Games for the Home, School and Playground* (Macmillan).

## ENGLISH COMPOSITION

1. USAGE AND STRUCTURE. Mr. LITZ. C 12.30 G 312

A review of the elements of grammar and the principles of punctuation, and a study of the structure of sentences, paragraphs, and whole compositions.

Text: French, *Usage, Structure, and Style, Part 1* (Johns Hopkins Press).

2. ADVANCED ENGLISH COMPOSITION. Professor ROUTH. C 10.30 G 311

(This course is identical with Journalism 1).

3. ORAL ENGLISH. Mr. LITZ. C 8.30 C 120

A study of the fundamentals of public speaking and the speech for various occasions, together with frequent practice in writing and delivering short talks.

Text: Knapp and French, *The Speech for Special Occasions* (Macmillan).



## ENGLISH LITERATURE

1. TYPES OF ENGLISH POETRY. Professor ROUTH. G and C 8.30  
G 113

A study of the theory of verse, based upon the usage and experimentation of poets from Chaucer to the present day. Problems arising in the teaching of poetry will receive consideration.

2. SHAKESPEARE. Mr. LITZ. C 9.30 G 312

A study of *King Lear*, *The Merchant of Venice*, and *Henry IV*, Part 1.

Texts: Arden Series, *King Lear*, *The Merchant of Venice*, and *King Henry IV*, Part 1 (Heath); Dowden, *Shakespeare Primer* (American Book Co.).

3. AMERICAN PROSE. Professor ROUTH. C 12.30 G 113

An historical study with special reference to the development of style and points of technique. Special attention is given to American authors and writings most used in English courses in secondary schools.

Text: Carpenter, *American Prose* (Macmillan).

Note.—This course is approximately the second half of the course on American Literature, the first half of which was given in 1920.

## FINE ARTS

Instruction in Fine Arts will be offered by the Maryland Institute of Baltimore, Lanvale Street and Mount Royal Avenue, June 27 to August 5. (For separate circular, address Director of the Institute.)

Students matriculated as candidates for a baccalaureate degree may offer these courses for credit. Such credit will be allowed only for the satisfactory completion of double-period courses.

## FRENCH

1. ROUSSEAU. Assistant Professor HAVENS. G and C 8.30 G 205

This course is intended for students who have considerable facility in reading French. The minimum of preparation for entrance is the work outlined in Course 2. Lectures in French, collateral reading, reports in French. Advanced students will do supplementary work.

Texts: Rousseau, *Petits chefs-d'oeuvre* (Didot); *Nouvelle Héloïse* (Garnier); *Emile* (Garnier); *Confessions* (Didot).

2. PRACTICAL FRENCH. Assistant Professor HAVENS. C 11.30  
G 205

This course is intended for students who have adequate preparation in French 4 and 5, or their equivalent. The exercises in the class are conducted in French.

Texts: Bazin, *Les Oberlé* (Holt); Hugo, *Les Misérables* (Holt); Giese and Cool, *French Anecdotes* (Heath); Levi, *French Composition* (Holt).

3. FRENCH PHONETICS. Assistant Professor HAVENS. C 12.30  
G 205

This course is intended for students who have adequate preparation in French Elements and who wish to perfect their pronunciation. It is especially recommended to those planning to teach French.

Text: Nitze and Wilkins, *Handbook of French Phonetics* (Holt).

4. INTERMEDIATE FRENCH. Mr. MERRILL. C 9.30 G 205

This course presupposes the completion of French Elements or its equivalent, and includes a review of the essentials of grammar, drill in pronunciation, practice in easy composition, and the reading of a book of short stories.

Texts: Carnahan, *Short French Review Grammar* (Heath); Buffum, *Stories from Mérimée* (Holt).

5. ELEMENTARY FRENCH. Mr. MERRILL. C 10.30 G 205

This course is planned for students beginning the study of French. The work consists of a study of the essentials of grammar, drill in pronunciation, composition, and the use of a conversational reader.

Texts: *The New Fraser and Squair French Grammar*, 1921 (Heath); Bierman and Frank, *Conversational French Reader* (Allyn and Bacon).

Note.—In case of sufficient demand, an evening course in Intermediate French or Practical French will be formed. All interested in such an evening class should file their preliminary registration before July 2.

## GEOGRAPHY

1. PHYSIOGRAPHIC GEOGRAPHY: MAP MAKING AND MAP INTERPRETATION. Dr. LITTLE. C 11.30 C 105

This course presents the basic values of map making and map interpretation in physiographic geography. Maps in general; map making; kinds of projection; various types of maps; reading and possible uses of contour maps; weather maps; weather forecasting and its variety of uses. The physiographic provinces of the United States are considered and the part they played in influencing the history of the country is emphasized.

Text: Salisbury, *Physiography*, Advanced course (Holt).

2. INDUSTRIAL AND COMMERCIAL GEOGRAPHY. Dr. LITTLE. C 9.30 C 105

This course presents the intimate relations between geography, industry, and commerce. Types of climate and their causes; chief industries: plant, animal, manufacturing, and mineral, with emphasis on the general principles underlying each; trade: its necessity, routes, and controlling factors. Attention is given to the available literature most helpful in teaching these subjects.

Text: Smith, *Industrial and Commercial Geography* (Holt).

## GERMAN

1. ADVANCED GERMAN. Associate Professor ROULSTON. G and C 10.30 G 8

Readings from Goethe.

Texts: *Die Leiden des jungen Werthers*, ed. Feise (Oxford); Goethe's Poems, ed. Goebel (Holt); *Iphigenie auf Tauris*, ed. Allen (Ginn).

2. INTERMEDIATE GERMAN. Associate Professor ROULSTON. C 9.30 G 8

Texts: Droste-Hülshoff, *Die Judenbuche*, ed. Eckelmann (Oxford); Keller, *Romeo und Julia auf dem Dorfe*, ed. Corwin (Holt); Meyer, *Gustav Adolfs Page*, ed. Roulston (Holt).

3. ELEMENTARY GERMAN. Associate Professor ROULSTON. C 8.30 G 8

A thorough review of the grammar is given. This course especially meets the needs of those who wish such a review while following more advanced courses.

Text: Vos, *Essentials of German* (Holt).

## HISTORY

1. AMERICAN COLONIAL HISTORY, 1690-1763. Associate Professor BOND. G 11.30 G 305

An advanced course for graduate students, including lectures and seminary reports. The chief topics to be considered will be the development of British colonial policy and of local institutions, the gradual westward expansion of the seaboard colonies, and the struggle between the French and the English for the possession of the Ohio and Mississippi valleys.

2. ENGLAND AND GREATER BRITAIN SINCE 1815. Associate Professor BOND. G and C 10.30 G 305

A survey of the general development of the British Empire since 1815, with special emphasis upon economic, political and social changes in England, and upon problems of the Empire and of foreign policy.

Texts: Cheyney, *An Introduction to the Industrial and Social History of England*, revised ed., 1920 (Macmillan); Cross, *History of England and Greater Britain* (Macmillan).

3. AMERICAN HISTORY SINCE 1789. Associate Professor BOND. C 8.30 G 305

A course in American political, social, and economic development from the establishment of the Constitution. Special emphasis is laid upon American progress since the Civil War, upon the relation of the United States to the Great War, and upon its present international position.

Texts: *The Riverside History of the United States*; Vol. II, Johnson, *Union and Democracy*; Vol. III, Dodd, *Expansion and Conflict*; Vol. IV, Paxson, *The New Nation* (Houghton Mifflin).

4. ROMAN HISTORY. Dr. BAKER. C 9.30 G 108

A study of the growth and development of Rome, with attention to economic, social, and political aspects.

Texts: Boak, *A History of Rome to 565 A. D.* (Macmillan); Munro, *A Source Book of Roman History* (Heath).

## HOME ECONOMICS

1. MATERIALS AND METHODS IN DOMESTIC SCIENCE. Miss ZUILL. C 8.30 M 114

This course is planned to meet the needs of teachers of domestic science in junior and senior high schools.

The course includes: a study of present day policies in home economics; aims and objectives in home economics and the relation of domestic science to the whole field of home economics; the place of home economics studies in the elementary school, junior high school, and senior high school curriculum; a study of the content of domestic science courses; planning courses of study for junior and senior high schools in given communities; methods of instruction; plans, factors involved in planning; standards for judging instruction; a study of text books, reference books, illustrative material and equipment.

2. MATERIALS AND METHODS IN DOMESTIC ART. Miss ZUILL. C 10.30 M 114

This course is planned to meet the needs of elementary, junior high, and senior high school teachers of domestic art.

The course includes: a general survey of the field of home economics; the relation of domestic art to other phases of home economics; the aims and objectives in domestic art in elementary schools, in junior high schools and in senior high schools; the place of domestic art in the elementary, junior high, and senior high school; planning courses of study in domestic art for a public school system; outlining content of courses for given communities; methods of instruction; lesson plans; a study of text books, and reference books for teachers and pupils, illustrative material, and methods of securing class room supplies.

## JOURNALISM

### 1. ADVANCED ENGLISH COMPOSITION. Professor ROUTH. C 10.30 G 311

This course provides special practice in writing, with applied theory. The work will be so planned as to co-operate with Course 2. It may, however, be taken separately.

### 2. THE PRINCIPLES AND PRACTICE OF JOURNALISM. Mr. TOMPKINS. C 11.30 G 311

This course of lectures on journalism and practical exercises in newspaper work includes discussions of the journalistic style, news stories, the reporter and his work, the departments of a modern newspaper, and the technical processes of publication.

The course is given in co-operation with *The Sun*, Baltimore. Members of the class will have the opportunity to study the making of a newspaper in practice, to use the plant of *The Sun* as a laboratory for such study, and to write under the direction and criticism of a member of its editorial staff.

Three scholarships have been provided by *The Sun* to be awarded to students taking Journalism 1 and 2 and any other related course. Applications, with detailed statements of training and experience, should be filed with the Director prior to Friday, July 1.

## MANUAL TRAINING

### 1. BENCH WORK IN WOOD. Mr. GAITHER. C 8.30-10.20 B P I 102

This course includes the use of tools and bench work in wood in the upper grades of the elementary schools and in the junior high school, outlining courses, planning equipments, and methods of individual and class exercises.

Advanced work in both hard and soft woods, and instruction in the use of the following machines is included: grinders, speed lathes, band saw, circular saw, and planer.

Teachers of shop work in junior high schools will find this course most helpful.

Laboratory fee: \$3.50.

Note.—Previous training in this work is not required for admission to this course.

### 2. MECHANICAL DRAWING. Mr. GAITHER. C 10.30 B P I 205

This course is designed to meet the special needs of teachers of mechanical drawing in junior high schools, manual training and vocational schools.

Emphasis is placed on the functional value of mechanical drawing to related subjects.

Laboratory fee: \$2.00. Students will provide their own drawing instruments.

### 3. SHEET METAL WORK. Mr. PETTIT. C 9.30-11.20 B P I 202

This course includes instruction in the use of the ordinary materials and machines usually found in sheet metal shops, elementary soldering, laying out of pipe elbows, pails, and small articles. The principles of elementary sheet metal drafting, and working from the student's own drawing are a part of this course.

Laboratory fee. \$3.00.

### 4. WOOD PATTERN MAKING. Mr. PETTIT. C 8.30 B P I 101

This course includes the making of simple patterns in wood; lectures and demonstrations on moulding and actual casting with material that can be used in any manual training shop. The use of wood-working machines and wood turning is included.

Laboratory fee: \$2.50.

## 5. ELECTRICAL WORK. Mr. LINK. C 8.30-10.20 B P I 132

A study of the practical applications of magnetism, electrostatics, electric currents, electromagnetism, and electromagnetic induction, with some attention to the underlying principles. Experiments are used freely to show the operation of various types of electrical equipment, such as batteries, telephones, telegraph, motors, generators, electric meters, transformers, radio telegraphy, and telephony.

Note.—Courses 3, 4, and 5 deal with the knowledge and practice necessary for teachers in junior high or vocational schools, and will be given only if a sufficient number register in these courses.

In arranging their schedule, students will note that the courses in Manual Training, with the exception of Course 6, will be given at the Polytechnic Institute, North Avenue and Calvert Street.

## 6. ELEMENTARY MANUAL TRAINING. Mr. GAITHER. C 11.30 M 204

This course includes handwork processes in cardboard, weaving, raffia, sand table work, bookbinding, metal and toy making, suitable for the grades of the elementary school. It presents an organized series of projects in each of the foregoing materials, emphasizing courses, equipments, supplies, and methods of handling the work. Special attention is given to materials and projects suitable for rural schools.

Those desiring training as playground and recreation leaders will find this course especially adapted to their needs.

Laboratory fee: \$3.00.

Note.—Students satisfactorily completing Courses 1 and 6 will be eligible to take the examination for manual training teachers in Baltimore city schools, provided they are graduates of secondary schools equal in entrance requirements to the secondary schools of Baltimore.

## MATHEMATICS

## 1. ADVANCED MATHEMATICS. Associate Professor MURNAGHAN. G 10.30 G 2

Introduction to the theory and application of elliptic functions. A slight familiarity with the theory of the complex variable is prerequisite.

## 2. ADVANCED ALGEBRA. Associate Professor MURNAGHAN. C 11.30 G 2

Determinants; solution of the cubic and quartic equations; bilinear and quadratic forms.

Text: Bôcher, *Introduction to Higher Algebra* (Macmillan).

## 3. ANALYTIC GEOMETRY. Associate Professor MURNAGHAN. C 12.30 G 2

Trilinear coordinates; quadratic loci.

Note.—In case of sufficient demand, an introductory course in differential and integral calculus will be substituted for Course 3.

## MUSIC

## 1. PUBLIC SCHOOL MUSIC: PRIMARY GRADES. Mr. DENUES. C 10.30 C 120

This course is intended for those who have had no special training in public school music methods, and covers the work of the first three grades. Care and development of the child voice; treatment of monotonies; ear training; music writing; rote songs; motion songs; sight-singing; time and tone problems.

Text: Hollis Dann, *Music Course: Manual for Teachers, Book I* (American Book Co.).



2. PUBLIC SCHOOL MUSIC: INTERMEDIATE AND JUNIOR HIGH GRADES.  
Mr. DENUES. C 12.30 C 120

This course is intended for elementary and junior high school teachers, principals, and supervisors who have had previous training in public school music methods. It offers the training necessary to give instruction in the subject from the fourth through the junior high school grades. All technical knowledge not essential to the requirements of sight-singing is eliminated. Care and development of the voice during childhood and adolescence; voice testing; ear training; music writing; song interpretation; part-singing; time and tone problems.

Text: Hollis Dann, *Music Course: Manual for Teachers, Book II* (American Book Co.).

The Peabody Conservatory of Music of Baltimore is announcing its summer session of six weeks, July 4 to August 13. Its program includes courses in Singing, Piano, Organ, Violin, 'Cello, Composition, Harmony, Form and Analysis, Interpretation, Piano Pedagogy, Theory, Ear Training, and Musical Literature.

Candidates for the degree of Bachelor of Arts or Science may offer for credit courses in music when officially reported by the Conservatory as having been satisfactorily completed, in accordance with the plan of co-operation between the University and the Conservatory.

Circulars containing full particulars will be sent on application to either the University or the Conservatory.

## PHILOSOPHY

1. SOCIAL ETHICS: THE IDEAL COMMUNITY. Dr. THALHEIMER. C  
11.30 G 113

A criticism of present institutions and current morality from the point of view of the community that should be.

2. THE RELATION BETWEEN MIND AND BODY. Dr. THALHEIMER. C  
9.30 G 113

A discussion of recent theories concerning the independence and efficacy of mind.

Text: McDougall, *Body and Mind* (Methuen).

## POLITICS

1. AMERICAN NATIONAL GOVERNMENT. Professor DEBEL. G and C  
11.30 G 320

A survey course on the national government of the United States, including the historical development, structure, and operation of the national government; the constitution; the rights and duties of citizens; the executive; Congress; and the judiciary. Some attention is also paid to party organization and issues. Advanced students will do supplementary work.

Text: Munro, *Government of the United States* (Macmillan).

2. AMERICAN STATE AND LOCAL GOVERNMENT. Professor DEBEL. G  
and C 12.30 G 320

This course is complementary to Course 1, but may be taken independently. It includes a study of the relation of the state to the nation, state constitutions, the organization and functions of the various departments of state government; popular control through the initiative, referendum, and the recall; reorganization of the state administration and the introduction of the budget system. Attention is also paid to county, township, and city government, home rule, commission government, and the city manager plan. Advanced students will do supplementary work.

Text: Munro, *Government of the United States* (Macmillan).

## PSYCHOLOGY

1. MODERN TENDENCIES IN PSYCHOLOGY. DR. BAGBY. G 11.30  
G 315

This course will present a critical review of recent developments in psychology: behaviorism, Freudianism, and mental testing.

2. THE PERSONALITY OF THE SCHOOL CHILD. DR. BAGBY. G and C  
9.30 G 320

In this course a study will be made of the more important factors in the development of personality in childhood. The chief personality-types will be described with suggestions as to how each can best be controlled for educational purposes.

3. INTRODUCTORY PSYCHOLOGY. DR. BAGBY. C 8.30 G 320

The fundamental conceptions of psychology will be presented with an emphasis on experimental methods and results.

## SPANISH

1. SPANISH LITERATURE. MR. ROBLES. G and C 10.30 G 103

By lectures in Spanish and readings a rapid survey of nineteenth century Spanish literature is undertaken. Advanced students will do supplementary work.

Texts: Fitzmaurice-Kelley, *Spanish Literature* (Appleton); Carrère, *La voz de la Conseja* (Zabala et Maurin).

2. PRACTICAL SPANISH. MR. ROBLES. C 8.30 G 103

Spanish is the language of the classroom. The course includes conversational practice and regular exercises in prose composition. The course is also designed to meet the needs of teachers of Spanish in secondary schools, attention being given to the purpose, material, and methods of this instruction. A knowledge of Elementary Spanish is prerequisite.

Texts: Romera-Navarro, *América Española* (Holt); Moreno-Lacalle, *Elementos de Español* (Sanborn).

3. ELEMENTARY SPANISH. MR. MERRILL. C 12.30 G 103

Grammar, reading, composition, with special stress on pronunciation and oral exercises.

Texts: Crawford, *First Book in Spanish* (Macmillan); Allen and Castillo, *Spanish Life* (Holt).

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## SCHEDULE

### 8.36—9.20

Education 4  
 Education 7  
 Education 16  
 Education 23  
 Education 30  
 Education 31  
 English Composition 3  
 English Literature 1  
 French 1  
 German 3  
 History 3  
 Home Economics 1  
 Manual Training 1 (8.30—10.20)  
 Manual Training 4  
 Manual Training 5 (8.30—10.20)  
 Psychology 3  
 Spanish 2

### 9.30—10.20

Biology 1  
 Economics 2  
 Education 3  
 Education 8  
 Education 13  
 Education 17  
 Education 27  
 Education 35  
 English Literature 2  
 French 4  
 Geography 2  
 German 2  
 History 4  
 Manual Training 1 (continued)  
 Manual Training 3 (9.30—11.20)  
 Manual Training 5 (continued)  
 Philosophy 2  
 Psychology 2

### 10—11.50

Chemistry 1

### 10.30—11.20

Economics 1  
 Education 6  
 Education 15  
 Education 19  
 Education 26  
 Education 33  
 English Composition 2  
 French 5  
 German 1  
 History 2  
 Home Economics 2  
 Journalism 1  
 Manual Training 2

Manual Training 3 (continued)

Mathematics 1

Music 1

Spanish 1

### 11.30—12.20

Classical Literature

Education 2

Education 10

Education 14

Education 22

Education 24

Education 32

French 2

Geography 1

History 1

Journalism 2

Manual Training 6

Mathematics 2

Philosophy 1

Politics 1

Psychology 1

### 12.30—1.20

Biology 2

Chemistry 4

Economics 3

Education 1

Education 5

Education 20

Education 21 A and B

Education 28

Education 34

English Composition 1

English Literature 3

French 3

Mathematics 3

Music 2

Politics 2

Spanish 3

### 1.30—2.20

Education 9

Education 11

Education 12

Education 18

Education 25

Education 29

Education 36

### 2.30—4.20

Biological Laboratory

Chemical Laboratory

Education 37

# THE JOHNS HOPKINS UNIVERSITY

BALTIMORE

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No. 2

Whole Number 336

THE  
JOHNS HOPKINS  
UNIVERSITY CIRCULAR

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SUMMER COURSES  
JULY 5—AUGUST 12  
1922

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BALTIMORE, MARYLAND

PUBLISHED BY THE UNIVERSITY

ISSUED JANUARY, MARCH, APRIL, JUNE, JULY, OCTOBER, NOVEMBER

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*University buildings closed.*

begins.

begins.

year begins.

year begins.

 Registration should be made prior to July 5. It may be made, in advance, by mail prior to June 28; after this date in person only (see page 7)

# THE JOHNS HOPKINS UNIVERSITY

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## SUMMER COURSES

1922

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### DEMONSTRATION SCHOOL

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N. ANNETTE MANN, B. S.	English	C 214
ELEANOR C. HEAVEY	Foreign Languages	C 117
VIRGINIA SHAFFER	History	C 115
ALICE G. BUCHER	Science and Geography	C 114

#### ELEMENTARY GRADES

MARY A. ADAMS	GRADE VI	M 201
MARY L. BROENING	GRADE V	M 202
ISABELLA M. JOHNSTONE	GRADE IV	M 206
To be selected	GRADE III	M 121
To be selected	GRADE II	M 117
MAUD M. HORN	GRADE I	M 119

#### KINDERGARTEN

GRACE MINK	KINDERGARTEN	M 109
To be selected	KINDERGARTEN ASSISTANT	M 109

## GENERAL STATEMENT

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The twelfth year of the Summer Courses of the Johns Hopkins University will open on Wednesday, July 5, and continue until Saturday, August 12, inclusive. Exercises in each subject will be held every week-day, Monday to Friday. In addition, on *Saturdays, July 8 and August 12, exercises will be held as scheduled.* Each course will consist of thirty class exercises or their equivalent. In the sciences laboratory work will be additional. Examinations will be held at the close of the session.

As the summer courses are authorized by the Trustees and their credits fixed by the various Faculties, they are an integral part of the work of the University. All the resources of the institution essential to their conduct are placed at the disposal of the students.

The principal object of the University in making provision for the summer work is to furnish instruction to teachers in all grades of schools, and to other persons who seek opportunities for instruction, with or without reference to an academic degree. Some courses offered are designed to meet the needs of graduate and collegiate students who wish to advance their standing or to make up deficiencies. Also courses in some subjects not given in the regular session are offered to meet special needs of schools.

## CHARACTER OF INSTRUCTION

The courses maintain the standard of instruction which characterizes the work of the regular session in the subjects representing graduate and collegiate departments, as well as in those introduced to meet the special needs of teachers. In addition to the regular class exercises, instructors hold daily conferences, in which the work of the courses is supplemented and adapted to the particular needs of individuals.

## DEMONSTRATION AND OBSERVATION SCHOOLS

In co-operation with the Baltimore Board of School Commissioners, a demonstration elementary and junior high school will be conducted as a means of affording illustrative material for the courses in education. This school will comprise two sections: one, an elementary department, consisting of a kindergarten and grades one to six, inclusive; the other, a junior high department, providing instruction in important subjects in grades seven, eight and nine. This will be



one of the city vacation schools in which pupils will be given an opportunity to secure promotion at the beginning of the next school year. Children whose parents are residents of Baltimore will be permitted to attend this school free of all charges for tuition and material of instruction.

Other city elementary and secondary vacation schools will be open during the session and available for observation in connection with the courses in elementary and secondary education.

#### SELECTION OF COURSES

Candidates for advanced degrees should arrange their programs in consultation with the departments in which their principal subjects lie. New students expecting to become candidates should present their cases to the Director.

Candidates for a baccalaureate degree should consult with the College Dean or the Director prior to the opening of the session, in the selection of courses that will meet requirements for the degree.

Students seeking credit that will enable them to meet in part or in full the requirements of state and city certificates, should select their academic and professional courses in accordance with the regulations in force under the Board of Education or of Examiners to whom their record will be submitted for acceptance.

#### ACADEMIC CREDIT

Graduate courses, leading to the degree of Master of Arts, will be credited by the respective departments in accordance with this rule of the Board of University Studies: the requirement of one of the two years of residence for this degree may be met by attendance and study in three sessions of the Summer Courses. These courses are designated by *G*.

Students matriculated as candidates for a baccalaureate degree will receive credit for the satisfactory completion of those courses designated by *C*. In general the same credit is given per hour as in the regular college courses, *e. g.*, a lecture course of thirty hours has a credit of two "points," or one-third of the credit for a course of three hours per week through the college year. Provided, however, the student follows but two courses, an additional credit may be given. The exact amount of additional credit in each course is determined by the instructor according to the work accomplished, subject to the approval of the Director, but in no case will an additional credit to exceed fifty per cent. be given, nor can a total credit

of more than eight points be allowed a student in one summer session.

Students not matriculated in the University will receive certificates indicating the amount of work satisfactorily performed. These certificates will indicate the value of the work done in each course, and will be accepted by State, County, and City Superintendents and Boards of Examiners in the extension or renewal of teachers' certificates, according to law.

#### ADMISSION AND ATTENDANCE

There are no formal examinations for admission. Students, both men and women, will be admitted to such courses as they are found qualified by the respective instructors to pursue with advantage.

The session will open promptly on July 5, carrying out the schedule provided on page 3 of cover. The Registrar's office (219 Gilman Hall) will be open for registration daily from Monday, June 26 to Monday, July 3, from 9 a. m. to 4 p. m. After July 6, admission to each course will be restricted to registered students. With the consent of the Director, students may make changes in their courses, which must be reported *in person* to the Registrar, up to and including July 7. After this date no change of courses will be permitted.

All fees, including both tuition and special laboratory and deposit fees, *must* be paid to the Treasurer *immediately* as an item in registration. *Attention is called to the fee of \$3.00 for the privilege of registration after July 5.*

#### NEW LOCATION

The University is occupying its new buildings at Homewood, a tract of one hundred and twenty acres in the northern part of Baltimore, where the session will be held. Entrances are on North Charles street at 32d and 34th streets. Footpath entrances are through Wyman Park, which lies on the southern and western sides of the grounds.

Homewood is reached from Camden Station (B. & O. Railroad) by the St. Paul Street trolley line cars marked "Guilford-Union Station"; from the Mount Royal Station (B. & O. Railroad) by walking two blocks east to Charles street; and from Union Station (Pa., N. C., and W. M. Railroads) by the trolley line on Charles street, marked "Roland Park" or "Guilford-Union Station"; and also by the north-bound blue motor-bus on Charles street. One should alight at 32d or at 34th street.

## EXPENSES

The regular tuition fee is \$35.00, payment of which entitles the student to attend as many as three courses. An additional course, with the exceptions noted in the statements of certain courses, may be attended, with the approval of the Director, upon the payment of an extra fee of \$14.00. (Under very exceptional circumstances, a student may register in one course only, the tuition fee in such case being \$22, unless otherwise noted in the statement of any particular course.)

The tuition fee for officers and teachers employed in public schools in the counties of Maryland, as evidenced by superintendent's certificates, is \$18.00, payment of which entitles such persons to register in two or three courses. Students failing to attend regularly the courses in which they have registered will be subject to the payment of the full fee.

*Failure to register and pay tuition and laboratory fees before the close of July 5 will entail an additional fee of \$3.00.*

Registration and payment of fees should be made in person or by mail in advance of the opening of the session. Students desiring to register by mail will first receive from the Director's office, upon request, a registration card, which is to be returned accompanied by remittance of the exact amount of tuition and other charges. Registrations by mail will be received up to and including June 28; after this date in person only at the University.

Additional fees are required for materials used in some of the courses. (For details, see statements of courses.)

No reduction of fees will be allowed for withdrawal after July 6th.

Checks will be received in payment of fees when drawn to the order of the Johns Hopkins University. For the convenience of students while in residence at the University, the Treasurer will receive out-of-town checks and drafts for payment upon collection. There is no charge for this service.

## BOARD AND LODGING

Board will be furnished at the Johns Hopkins Club, located in the Carroll Mansion on the campus. Men and women in attendance are eligible for summer membership, the fee being \$2.00. This fee is payable by all who are not regular members of the Club. Membership cards are issued by the Director upon registration at the University. The Club will open with dinner, Tuesday, July 4, and close with dinner, Saturday, August 12.. Board is furnished at \$9.00 per week. Luncheons are served singly at 50 cents. The dairy lunch

room in the Student Activities Building will be open daily during the session.

The University has no dormitories. Furnished rooms in private homes in the vicinity of the University are offered for rent at prices ranging from \$3.00 to \$7.00 per week for a single room. Board can be had in private boarding-houses or in public restaurants at prices ranging from \$7.00 to \$12.00 per week. A printed list of boarding and lodging houses will be sent upon request.

#### LECTURES AND RECITALS

In addition to the social opportunities afforded by the opening and closing receptions, students are invited to the lectures and recitals which will be given every Wednesday afternoon and Friday evening, in co-operation with the Summer Session of the Peabody Conservatory of Music.

#### EXCURSIONS

Saturday excursions will be made to Annapolis, the State capital, and Washington, D. C., both within an hour's ride by trolley, and to points of interest in and about Baltimore.

#### THE UNIVERSITY POST-OFFICE AND BOOK-STORE

The University post-office, in Gilman Hall, will be open. Students may have their mail addressed in care of Johns Hopkins University.

The Johns Hopkins Press Book-Store (102 Gilman Hall) supplies officers and students with text books, stationery, and other materials at list prices. The book-store will be open daily.

#### BUREAU OF APPOINTMENTS

The University Bureau of Appointments extends its services *gratis* to the students registered in the Summer Courses. These services include assistance in placing students in academic and non-academic positions. The Director, Dr. French, will be found in his office (303 Gilman Hall) during the session.

#### SUMMER WORK FOR GRADUATES IN MEDICINE

Beginning Thursday, June 1st, and ending Saturday, July 15th, a course in medical diagnosis, including laboratory exercises in clinical pathology and demonstrations in pathological anatomy, will be offered. The course will be limited to thirty students, fee \$100. Applications should be made to the Dean of the Medical School of the University.

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## COURSES OF INSTRUCTION

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### EXPLANATION OF SYMBOLS IN TITLES OF COURSES.

C and G preceding the hour indicate that the course may be offered for collegiate and graduate credit, respectively.

The final initial and number indicate the building and classroom: G, Gilman Hall; C, Civil Engineering; M, Mechanical and Electrical Engineering; B. P. I., Baltimore Polytechnic Institute.

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### BIOLOGY

1. GENERAL BIOLOGY. Associate Professor COWLES and Assistant.  
C 9.30 G 11

The course is open to all students without previous training in science. Study and comparison, with the aid of the microscope, of typical organisms from the simpler, as amoeba and yeast, to the more complex. The lectures deal with the manner in which plants and animals carry on their activities, and point out our present interpretations and biological theories.

Texts: Abbott, *General Biology* (Macmillan); Andrews, *Laboratory Directions in General Biology and Embryology* (Johns Hopkins Press).

2. ZOOLOGY. Associate Professor COWLES and Assistant. C 12.30  
G 11

The laboratory work of this course consists of a study of such representative animals as amoeba, hydra, an earthworm, a crayfish, and a frog. The behavior of these animals as well as their structure is studied, including occasional field excursions to streams, forests, and open fields, for the purpose of becoming better acquainted with the habitats of animals. The lectures supplement, for the most part, the work in the laboratory, but a few lectures are devoted to the more general problems of zoological science.

Texts: Hegner, *College Zoology* (Macmillan); Pratt, *Invertebrate Zoology* (Ginn).

Laboratory fee: \$1.50, for each course.

### CHEMISTRY

1. ORGANIC CHEMISTRY. Professor GILPIN and Mr. BEARD. G  
10-10.50 and 11-11.50; Laboratory, 12.30-4.20 M 204

This course is intended for those who have had a thorough training in inorganic chemistry and will be suited to the needs of graduate students who have not had a systematic course in organic chemistry, and also to those who wish to prepare for entrance to the Medical School or to the School of Hygiene. In order to satisfy the requirements of these schools, the course will consist of two hours lectures and four hours laboratory work daily.

Texts: Remsen, *Organic Chemistry* (Heath); Norris, *Laboratory Manual of Organic Chemistry* (McGraw Hill Book Co.).

Laboratory fee: \$12.00; deposit fee: \$5.00.

Note.—In the arrangement of programs and determination of fees, students should note that Chemistry 1 is a double course.

2. QUALITATIVE ANALYSIS. Mr. BEARD. G and C 10-10.50 M.,  
W, F.; Laboratory, 10-4.20 M 116

For those who have had sufficient preparation, opportunity will be offered for individual laboratory work in qualitative analysis. Laboratory is open from 10 a. m. to 4.20 p. m.

Laboratory fee: \$7.00; deposit fee: \$5.00.



3. QUANTITATIVE ANALYSIS. Mr. BEARD. G and C 10-10.50  
Tu., Th., Laboratory, 10-4.20 M 116

For those who have had sufficient preparation, opportunity will be offered for individual laboratory work in quantitative analysis. Laboratory is open from 10 a. m. to 4.20 p. m.

Laboratory fee: \$7.00; deposit fee: \$5.00.

4. INTRODUCTION TO GENERAL CHEMISTRY. Professor GILPIN and Mr. BEARD. C 12.30; Laboratory, 2.30-4.20 M 104

No previous knowledge of chemistry is required for this course. It will include, as far as possible in the time allowed, a study of the important non-metallic and metallic elements and their properties.

Text: McPherson and Henderson, *A Course in General Chemistry* with laboratory manual (Ginn).

Laboratory fee: \$7.00; deposit fee: \$5.00.

Note.—The deposit fee of \$5 for each course will be returned at the close of the session less the cost of materials not included in the laboratory fee and the charge for breakage.

## ECONOMICS

1. THE LABOR MOVEMENT. Professor STOCKTON. G and C 10.30  
G 315

The development of labor organizations; policies and parties in America; socialism and agrarian movements in their relation to labor problems. Advanced students will do supplementary work.

2. AMERICAN ECONOMIC HISTORY. Professor STOCKTON. C 9.30  
G 315

The main currents of America's economic development, such as manufacture, commerce, industrial organization, transportation, currency, banking, agriculture, population and labor, historically considered in their bearing on the life of the people.

Text: Van Metre, *Economic History of the United States* (Holt).

3. ELEMENTS OF POLITICAL ECONOMY. Professor STOCKTON. C  
12.30 G 315

A general survey of the science of economics, including production, consumption, exchange, and distribution.

Text: Ely, *Outlines of Economics* (Macmillan).

## EDUCATION

1. EXPERIMENTAL EDUCATION: THE APPLICATION OF STATISTICAL METHODS TO EDUCATION. Dr. BROOKS. G 9.30 G 216

This course aims to equip advanced students, principals, and superintendents of schools for careful, accurate investigation of problems in education. Principles and techniques fundamental (a) to scientific experimentation in education and (b) to the presentation and interpretation of educational data. Practice in the necessary statistical and graphical procedures.

2. EXPERIMENTAL EDUCATION: THE INTELLIGENCE OF SCHOOL CHILDREN. Dr. BROOKS. G 8.30 G 216

A. Principles and techniques of rating the intelligence of school children; the development, forms, and uses of intelligence tests, both individual and group; statistical evaluation and graphical presentation of data; interpretation and application of results with special reference to the classification and instruction of children. Provision is made for practice in giving and scoring tests.

B. Students who satisfactorily completed the above (Education 4) in 1921, and others with equivalent training, will have the opportunity of doing advanced work on special problems to be assigned.

Texts: Terman, *The Measurement of Intelligence* (Houghton Mifflin); *Twenty-first Yearbook, Parts I and II* (Public School Publishing Co.).

### 3. EXPERIMENTAL EDUCATION: TESTS IN THE ELEMENTARY SCHOOL SUBJECTS. Miss SIMPSON. G and C 11.30 G 216

A. A critical study of the standardized scales and the group survey method of testing the achievements of pupils in elementary school subjects. Attention is given to the evaluation of tests and the graphical presentation of data. Provision is made for practice in giving and scoring tests.

B. Students who satisfactorily completed the above (Education 3) in 1921, and others with equivalent training, will have the opportunity of doing advanced work on special problems to be assigned.

Three lectures and four hours laboratory work per week.

### 4. EXPERIMENTAL EDUCATION: INTERPRETATION AND APPLICATION OF TEST RESULTS. Miss SIMPSON. G and C 9.30 G 320

The use of tests for improvement of classroom instruction; interpretation of the statistical data; diagnosis of pupil ability and pupil difficulties; corrective measures. The course aims to present pupil measurement as a direct means of devising effective procedures and methods for teaching the elementary school subjects.

### 5. EDUCATIONAL PSYCHOLOGY: ELEMENTARY SCHOOL SUBJECTS. Dr. BROOKS. G and C 10.30 G 216

Analysis of the learning processes with special reference to reading and arithmetic, some attention being given to handwriting, drawing, spelling, and the social studies. Considerable attention is given to the diagnosis and remedial treatment of reading defects.

Texts: Thorndike, *Psychology of Arithmetic* (Macmillan); Smith, *The Reading Process* (Macmillan).

### 6. SCHOOL HYGIENE. Dr. FREEMAN. G and C 8.30 G 320

The course is designed to give a general view of the subject of hygiene as it relates to the school child. Methods of teaching hygiene in the curriculum are presented for discussion, and the development and use of charts, models and other aids to teaching are employed.

This course is given in coöperation with the School of Hygiene and Public Health, under the auspices of the De Lamar Foundation for the Extension of Medical Knowledge. De Lamar Scholarships have been made available for students registering in this course alone. Application should be made to the Director before July 1.

Tuition fee: \$5, for students registering in this course alone.

## Secondary Education

### 7. SECONDARY EDUCATION. Dr. WEGLEIN. G and C 10.30 G 310

This course includes some of the principal topics in secondary education: the development and function of the American high school; the main problems connected with the program of studies; types of learning characteristic in secondary schools; methods of instruction.

Text: Inglis, *Principles of Secondary Education* (Houghton Mifflin).

### 8. THE TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL. Mr. OPDYCKE. G and C 11.30. G 310

The work of this course embraces the various phases and departments of senior high school English teaching, including types and qualities of expression, and the focusing of instruction upon ultimate academic and community requirements. Stress is placed upon appreciation and enjoyment in the reading of classics and upon craftsmanship in oral and written composition. Some attention is given to the problems of departmental organization of instruction in English.

Lectures, reports, lesson plans, and teaching tests.

9. THE TEACHING OF MATHEMATICS IN THE SENIOR HIGH SCHOOL.  
Mr. HART. G and C 9.30. G 2-3

This course on the teaching of senior high school mathematics includes the following topics: required and elective courses in grades ten, eleven, and twelve; ninth grade mathematics in four-year high schools; recommendations of the National Committee; the new entrance requirements for admission to college; applied mathematics; training in the pure mathematics of these courses; the use of tests; statistics applied to teaching.

Lectures and reports on assigned topics.

Each student should have in hand: (1) the texts to be used in his school; (2) a history of mathematics; (3) a text on the teaching of mathematics in secondary schools.

10. THE TEACHING OF HISTORY AND CIVICS IN THE SENIOR HIGH SCHOOL. Dr. SULLIVAN. G and C 8.30. G 311

A brief historical survey of the introduction of history and civics courses in the high school course of study, and an analysis of the various committee reports for their improvement in content, methods of teaching and correlation with courses in the elementary school, junior high school and college, is followed by a detailed study of the practical methods to be used in the presentation of the subjects in the class room.

Observation work in the city schools and practice teaching in sections will be given. Special readings and reports will be called for.

11. THE TEACHING OF GEOGRAPHY IN SECONDARY SCHOOLS. Professor HUBBARD. G and C 12.30 C 105

This course on the teaching of geography in the junior high school emphasizes the application of the project-problem method in this subject. It includes: selection and motivation; development of problems; class organization for this type of work; regional geography, its meaning and value, bases for dividing the continents into natural regions; a study of specific regions to show the unity of economic response in a uniform physical environment; conduct of field trips; geographical changes made in the continents affected by the peace treaties; methods of teaching topics in mathematical geography.

Text: Branom, *The Teaching of Geography* (Ginn).

12. PROBLEMS OF ORGANIZATION AND ADMINISTRATION IN THE JUNIOR HIGH SCHOOL. Mr. SAVAGE. G and C 10.30 G 320

After a consideration of the history of education in America and of the demands for a reorganization of the school system, different features of organization and administration are discussed. Such subjects as preparation of teachers, curricula, courses of study and schedule making are considered and careful attention is given to the problems of adolescence, vocational guidance and industrial training.

Text: Briggs, *The Junior High School* (Houghton Mifflin).

13. METHODS OF TEACHING IN THE JUNIOR HIGH SCHOOL. Mr. SAVAGE. G and C 8.30 G 315

This course treats such topics as supervised study, promotion by subject, study coach organization, socialized recitation, project and problem method, extra-curricula activities, socializing the school, and student government. Special methods of teaching the various subjects are considered. Assigned reading, class papers and discussions.

14. THE TEACHING OF ENGLISH IN THE JUNIOR HIGH SCHOOL. Mr. OPDYCKE. G and C 12.30 G 310

The work of the course deals with the special problems of English teaching in the intermediate or junior high school, particularly in connection with literature, speech, composition, and the mechanics of expression. Content is examined and methodology indicated. The "middle place" of junior high school English is interpreted in relation to the elementary school below and to the senior high school above.

Lectures, papers, discussion, and model lessons by the students.

15. THE TEACHING OF MATHEMATICS IN THE JUNIOR HIGH SCHOOL.  
Mr. HART. G and C 11.30 G 2-3

This course considers the selection, organization, and teaching of topics in mathematics for grades seven, eight, and nine. Special consideration is given to: the local course of study; the recommendations of the National Committee; training in the actual mathematics of these courses, especially intuitional geometry, indirect measurement, trigonometry, and statistics; the measurement of intelligence and progress.

Lectures and reports on assigned topics.

Each student should have in hand: (1) a modern text for these grades; (2) a copy of the report of the National Committee; (3) Hanus, *Geometry in the Grammar School* (Heath); Stone, *The Teaching of Arithmetic* (Sanborn).

16. THE TEACHING OF HISTORY AND CIVICS IN THE JUNIOR HIGH SCHOOL. Dr. SULLIVAN. G and C 9.30 G 305

An historical survey similar to that given in the course for the senior high school (see Education 10) is followed by a consideration of the courses of study in history and civics peculiarly fitted for the junior high school as differentiated from the elementary and the senior high school, and of the methods to be used in the presentation of the subjects in the class room.

Observation of school room work and practice teaching in sections will be given. Special readings and reports will be called for.

17 A. DEMONSTRATION SCHOOL: JUNIOR HIGH GRADES. Professor  
BUCHNER and Dr. WEGLEIN. G and C 12.30 M 114

Demonstration lessons in many of the subjects taught in grades seven, eight, and nine. A description of the requirements for credit for this course is given in Education 17 B.

The conferences, 12.30 p. m., will begin Wednesday, July 5, and the observation of teaching, Thursday, July 6.

Note.—For additional courses presenting material on teaching secondary school subjects see: *English Literature* 1, 2, and 3; *Home Economics; Manual and Industrial Arts; Music* 3.

### *Elementary Education*

17 B. DEMONSTRATION SCHOOL: ELEMENTARY GRADES. Professor  
BUCHNER and Dr. WEGLEIN. C 12.30 M 110

The purpose of this course is to furnish a practical study of the teaching process by means of systematic observation, conferences, and reports. The school will be in session daily from 8.30 a. m. to 12.20 p. m. These classes are open for observation *only* to those registered for this course. The elementary department will include a kindergarten and grades one, two, three, four, five, and six.

The requirement for those taking the course for credit (one point) is a total of six conferences (12.30 p. m.), twenty-four observation hours, and two written reports. The two written reports must be filed in the office of the Director, 217 Gilman Hall, *not later than Monday, August 8*. Reports filed after this date will not be accepted.

The conferences, 12.30 p. m., will begin Wednesday, July 5, and the observation of teaching, Thursday, July 6.

18. SUPERVISION IN ELEMENTARY SCHOOLS. Associate Professor  
BAMBERGER. G 8.30 G 312

This course is designed for principals, supervisors, and critic teachers. It is organized about the principle that growth of teachers in service is the outcome of scientific supervision, and considers the four chief phases: supervision of subject matter; supervision of instruction; personal supervision; measuring the results of supervision. Such topics as the following are discussed: the responsibility of the supervisor for securing community support and cooperation for progressive educational policies; the nature and value of systematic report cards and blanks;



standards for evaluating the worth of courses of study; of text-books; of daily programs of children's activities; of the various types of schoolroom procedure such as the drill lesson, the supervised study lesson, the project-method, the so-called socialized recitation. It also considers the personal relationship of supervisor and supervised, and standards for evaluating the worth of supervisory activities.

19. THE ORGANIZATION AND SUPERVISION OF CITY ELEMENTARY SCHOOLS. Mr. DOUGLASS. G and C 11.30 G 312

A. This course considers the principal as a supervisor, and as a social and an educational agent. The chief topics are: the making of courses of study; classification and promotion of pupils; departmental teaching; types of supervision; school statistics; extra-classroom activities; health; play; relation of school to home and community.

B. Advanced students who satisfactorily completed the above (Education 22) in 1921, and others with equivalent training, will have the opportunity of doing additional work in special problems to be assigned.

20. SCHOOL MANAGEMENT AND SCHOOL LAW. Mr. UNGER. G and C 9.30. G 310

A. This course is designed to meet the needs of teachers who wish to qualify as principals, to improve principals in service, and to give teacher and principal a perspective of a properly organized school in a county system. It includes a consideration of the Report on the Cardinal Principles of Secondary Education, the six-three-three plan of school organization, the elements of curricula-making, the consideration of a well-balanced daily and weekly program, the supervision of the school, measuring the achievements of children and a study of teachers' marks, attendance and retardation, discipline and punishment, extra-curricular activities, the health of the school-child, school administration, and the principal's responsibility under the Maryland School Law.

B. Advanced students who satisfactorily completed the above (Education 23) in 1921, and others with equivalent training, will have the opportunity of doing additional work in special problems to be assigned.

Texts: Finney and Schaffer, *Administration of Village and Consolidated Schools* (Macmillan); Strayer and Englehart, *The Classroom Teacher* (American Book Co.).

21. TEACHING THE ELEMENTARY SCHOOL SUBJECTS. Mr. DOUGLASS. C 10.30 G 312

This course in method and content of the intermediate and grammar grades offers a critical survey of existing conditions with reference to the social demands made upon the school.

Lectures, readings, and discussions.

Text: Rapeer, *Teaching Elementary School Subjects* (Scribner's).

22. READING IN THE INTERMEDIATE GRADES. Associate Professor BAMBERGER. C 11.30 G 311

This course is designed to meet the needs of those who wish to obtain knowledge of the recent tendencies in the teaching of reading to children in the elementary school above the third grade. The treatment is organized about the principal issues in teaching reading, such as: oral vs. silent reading; reading for meaning; fiction vs. factual material; how to get adequate motives; the supervised study lesson in reading; reading in relation to the project method; the measurement of silent and oral reading.

Members of the class will be expected to apply reading tests to the children in the demonstration school. The results of these will furnish the material for the discussion on measurement of reading.

23. THE TEACHING OF GEOGRAPHY IN THE INTERMEDIATE GRADES. Professor HUBBARD. C 8.30 C 105

Home geography, including the content and method of observational work and the relation of home geography to upper grade work; field trips for observational



study; use of the text book, illustrative material, maps, and readers; selection and organization of subject matter; methods of teaching the geography of products and industries using North America as a type of the continents.

Text: Dodge and Kirchwey, *Teaching of Geography in Elementary Schools* (Rand, McNally and Co.).

24. PUPIL PARTICIPATION IN THE ACTIVITIES OF THE PRIMARY GRADES. Miss FRAZEE. C 12.30 G 112

This course comprises a study of: social and educational principles underlying project activity; school life as a field for training in initiative and co-operation; the adjustment of pupil participation to the standards of the curriculum; the adaptation of classroom organization and equipment to more free and varied activity on the part of pupils, and the wider opportunity which the socialized school opens to teachers and principals.

Lectures, readings, reports, and class discussions.

Texts: Kilpatrick, *The Project Method* (Teachers Coll. Press); Dewey, *Interest and Effort in Education* (Houghton Mifflin).

25. SELECTION AND ARRANGEMENT OF CURRICULUM MATERIALS FOR THE PRIMARY GRADES. Miss FRAZEE. C 10.30 G 112

This course undertakes a study of the principles in accordance with which curriculum materials are selected and graded and an examination and evaluation of the materials of the curriculum for grades one, two, and three, in the light of these principles.

Lectures, readings, and class discussions.

Texts: Bonser, *The Elementary School Curriculum* (Macmillan); Dewey, *The Child and the Curriculum* (Univ. of Chicago Press).

26. LITERATURE AND READING IN THE PRIMARY GRADES. Associate Professor BAMBERGER. C 9.30 G 112

This course offers a critical study of the place that literature and reading occupy in the educative process of children from five to eight years of age. The topics to be considered are: the physical, social, and psychological needs of the young primary child; types of literature that meet these needs; the psychology of reading; the pre-book reading stage; the purpose and conduct of silent reading; the purpose and conduct of oral reading; the purpose and technique of measuring reading ability.

Members of the class will be expected to apply reading tests to the children in the demonstration school. The results of these will furnish the material for the discussion on measurement of reading.

27. FIRST GRADE-KINDERGARTEN ADJUSTMENTS. Miss MESEROLL. C 11.30 G 112

The course considers the experiences and activities of children, the various materials of instruction available in kindergarten and first grade, methods of presentation, and recent typical courses of study, with special reference to the adjustments now possible between kindergarten and first grade.

This course is open to teachers in first grade, kindergarten, and to prospective teachers in kindergarten, and is designed to offer such training as will permit an interchange in their assignments.

28. CURRENT KINDERGARTEN THEORY AND PRACTICE. Miss MESEROLL. C 8.30 G 112

This course deals with problems of the kindergarten and includes a discussion of the aims, subject-matter and methods of different types of schools in this country and abroad which have demonstrated more satisfactory procedure in handling the problems of the kindergarten. Attention is given to the organization of the activities of children and to the selection and use of appropriate materials for fine, industrial, and dramatic arts.

Open to teachers in first grade, kindergarten, and prospective teachers in kindergarten.

29. RURAL AND VILLAGE SCHOOL PROBLEMS. Mr. UNGER. C 8.30  
G 310

In this course the rural and village school, both as a social and an educational problem, and the data available for its solution are considered. Among the topics discussed are: buildings and equipment; recreation and playgrounds; rural hygiene; text-books; lesson assignments and preparation; study; seatwork, lesson plans; the daily program; the alternation schedule; standard tests.

Note.—The consideration of the teaching of the elementary school subjects is conducted with reference to the Maryland Elementary Course of Study, and is designed, along with Education 20, to meet the minimum preparation for teaching specified in the State law.

Texts; Hart, *Educational Resources of Village and Rural Communities* (Macmillan); Davis, *The Technique of Teaching* (Macmillan).

30. PROBLEMS OF AMERICANIZATION: PRINCIPLES, PROBLEMS AND  
BACKGROUNDS. Mr. LEWIS. C 8.30 G 313

This course offers a study of the various problems of adjustment of the foreign-born; the immigrant's relation to his community; principles and methods of Americanization work; immigrant backgrounds as they affect immigrant prejudices and attitudes of mind; the co-ordination of Americanization forces and agencies in the community.

Note.—See note under Education 31.

31. PROBLEMS OF AMERICANIZATION: METHODS OF TEACHING ENG-  
LISH TO FOREIGN-BORN. Mr. LEWIS. C 9.30 G 313

This course is planned for persons interested in teaching English to the foreign-born in evening schools, in women's classes, or to non-English-speaking children in the grades. The course includes a study of the direct method of teaching language; practical class room methods in evening schools; courses of study.

Opportunity will be given for observation of evening classes conducted by the Department of Education of Baltimore City.

Note.—Persons desiring to qualify as teachers of English to the foreign-born should register for Education 30 and 31.

Tuition fee: \$15.00 for students registering in both Education 30 and 31.

32. PHYSICAL EDUCATION: PRINCIPLES AND PRACTICE. Dr. BURDICK  
and Miss FLINN. C 1.30 M 101

This course is planned for those principals and teachers who desire their pupils to be happy children with healthy bodies. Half of the course is devoted to lectures on the nature of play, recreation, and athletics, their relation to general education, and the value of games for school discipline. The other half of the course consists of demonstrations of the principles discussed by means of games and athletics with the pupils of the Demonstration School.

Readings: Gulick, *A Philosophy of Play* (Scribner's); Lee, *Play in Education* (Macmillan); Johnson, *Education by Plays and Games* (Ginn).

33. PHYSICAL EDUCATION: GAMES AND ATHLETICS. Miss FLINN.  
C 2.30-4.20 M 101

This course aims to prepare teachers to become actual leaders in the plays and games of children, and in the athletics of boys and girls. Supervised play; organized recesses; school-room games; after-school athletics.

Each student will personally practice plays, games, and athletics. Simple gymnasium suits will be needed.

Text: Bancroft, *Games for the Home, School and Playground* (Macmillan).

## ENGLISH COMPOSITION

1. STYLE AND THE FORMS OF DISCOURSE. Dr. LITZ. C 12.30  
G 311

A study of the elements of style and of the principles of description, narration, exposition, and argumentation, with frequent practice in writing.

Text: French, *Usage, Structure, and Style, Part II* (Johns Hopkins Press).

Note.—This course is the second half of the regular course in English Composition, the first half of which was given in 1921.

## 2. THE SHORT STORY. Professor ROUTH. C 9.30 G 113

A study of the technique of the short story, with practice in writing. The text and readings in the library are used to supply models for the construction of original stories.

Text: Ramsay, *Short Stories of America* (Houghton Mifflin).

## 3. ORAL ENGLISH. Associate Professor FRENCH. C 10.30 G 311

A course in the composition and delivery of speeches adapted to various special occasions. Attention is paid to correct habits of expression and to the ready choice of words.

Text: Knapp and French, *The Speech for Special Occasions* (Macmillan).

## 4. THE FORMS OF CONTEMPORARY PROSE WRITING. Dr. LITZ. C 10.30 G 314

(This course is identical with Journalism 1).

# ENGLISH LITERATURE

## 1. SHAKESPEARE. Professor ROUTH. G and C 10.30 G 108

An intensive study of Hamlet, Macbeth, and As You Like It, with reference to sources, versification, dramatic technique, and literary values, together with discussion of methods for teaching appreciation of Shakespeare.

Text: *Hamlet, Macbeth, and As You Like It*, ed. Verity in *The Student's Shakespeare* (Univ. Press, Cambridge, Eng.).

## 2. TENNYSON: IDYLLS OF THE KING. Professor ROUTH. G and C 8.30 G 113

Versification, the use of sources and the art of telling a story in verse, as illustrated by Tennyson's twelve idylls, all treated with some reference to the needs of the secondary teacher of literature.

## 3. AMERICAN VERSE. Associate Professor FRENCH. C 9.30 G 311

A survey of the various types of verse represented in American literature, including the works of contemporary poets. Emphasis is laid on the poems commonly studied in secondary schools.

Text: Pattee, *Century Readings in American Literature* (Century Co.).

Note.—The full course in American literature in the regular session, of which this is approximately the first half, may be completed in the second half-year of the College Courses for Teachers.

## 4. HISTORY OF ENGLISH LITERATURE: 1600-1750. Dr. LITZ. C 8.30 G 314

This course offers a survey of the literature of the seventeenth and the first half of the eighteenth centuries. Special attention is given to the English Bible, Milton, Dryden, and Pope.

Text: *Century Readings in English Literature*, ed. Cunliffe, Pyre and Young (Century Co.).

Note.—The second half of the usual historical course in English literature from 1600 to 1890, of which Course 4 is approximately the first half, may be expected in the summer program of 1923.

## FINE ARTS

Instruction in Fine Arts will be offered by the Maryland Institute of Baltimore, Lanvale Street and Mount Royal Avenue, June 27 to August 8. (For separate circular, address Director of the Institute.)

Students matriculated as candidates for the degree of Bachelor of Science may offer for credit such of these courses as come within the regulations governing the academic relations of the University and the Institute.

In the program of the Institute the following course is announced:  
INDUSTRIAL ART FOR TEACHERS, by T. H. POND, three hours daily.

## FRENCH

## 1. CORNEILLE. Mr. RIDDLE. G and C 8.30 G 205

A study of Corneille's dramatic theory and practice in his tragedies from the *Cid* to *Nicomède*. This course is intended for students who have considerable facility in reading French. Lectures and reports in French. Advanced students will do supplementary work.

Text: Corneille, *Théâtre choisi* (Hachette).

## 2. FRENCH ROMANTICISM. Mr. RIDDLE. G and C 10.30 G 205

A study of the characteristics of French Romantic literature. This course is open to those who have a reading knowledge of French. Advanced students will do supplementary work.

Texts: Chateaubriand, *Atala* (Heath); Henning, *Representative French Lyrics of the Nineteenth Century* (Ginn); Hugo, *Hernani* (Heath); Musset, *Trois Comédies* (Heath).

## 3. FRENCH PHONETICS. Mr. RIDDLE. G and C 12.30 G 205

A study of modern French pronunciation. Open to students who have a reading knowledge of French.

Texts: Nyrop, *Manuel phonétique du français parlé*; Tilly, *Aid to French Pronunciation* (Macmillan).

## 4. PRACTICAL FRENCH. Assistant Professor DAVIS. C 9.30 G 205

This course is intended for students who have adequate preparation in French 5 and 6, or their equivalent. The exercises are conducted in French.

Texts: Daniels, *Contes de la France contemporaine* (Heath); Balzac, *Eugénie Grandet* (Holt).

## 5. INTERMEDIATE FRENCH. Assistant Professor DAVIS. C 8.30 G 108

This course presupposes the completion of French Elements or its equivalent, and includes a review of the essentials of grammar, drill in pronunciation, practice in easy composition, and the reading of a novel.

Texts: Carnahan, *Short French Review Grammar* (Heath); France, *Le Crime de Sylvestre Bonnard* (Heath).

## 6. ELEMENTARY FRENCH. Assistant Professor DAVIS. C 11.30 G 205

This course is planned for students beginning the study of French. The work consists of a study of the essentials of grammar, drill in pronunciation, composition, and the use of a conversational reader.

Texts: *The New Fraser and Squair French Grammar*, 1921 (Heath); Bierman and Frank, *Conversational French Reader* (Allyn and Bacon).

## GEOGRAPHY

- INDUSTRIAL AND COMMERCIAL GEOGRAPHY. Professor HUBBARD. C  
11.30 C 105

A study of the physical environment of productive regions showing how climate, soil and relief of surface determine the distribution of the world's products; the relation of manufacturing to the location of raw materials and fuel; conservation of natural resources; factors which determine the location and character of trade routes including the influence of harbors upon railway transportation and the growth of cities, with special reference to Baltimore.

Text: Smith, *Industrial and Commercial Geography* (Holt).

## GERMAN

1. ADVANCED GERMAN. Associate Professor ROULSTON. C 10.30  
G 103

Advanced prose composition.

Text: Whitney and Stroebe, *Advanced German Composition* (Holt).

2. INTERMEDIATE GERMAN. Associate Professor ROULSTON. C  
9.30 G 103

Texts: Meyer, *Das Amulett*, ed. Glascock (American Book Co.); Keller, *Die drei gerechten Kammacher*, ed. Collins (Heath); Goethe, *The Vicar of Sesenheim*, ed. Nichols (Holt).

3. ELEMENTARY GERMAN. Associate Professor ROULSTON. C 8.30  
G 103

A thorough review of the grammar is given. This course especially meets the needs of those who wish such a review while following more advanced courses.

## HISTORY

1. AMERICAN COLONIAL HISTORY, 1689-1776. Professor CHITWOOD.  
G 11.30 G 305

An advanced course for graduate students including lectures and seminary reports. Particular attention is given to colonial industry and commerce, the British regulations of commerce and industry, social life, and governmental institutions.

2. EUROPEAN HISTORY SINCE 1815. Professor CHITWOOD. G and C  
10.30 G 305

A survey of the history of Europe from 1815 to 1870 is followed by an intensive study of the subsequent period, with special emphasis upon economic conditions, international rivalries, and the diplomatic background, the immediate causes, and the economic aspects of the great war.

Text: Schapiro, *Modern and Contemporary European History* (Houghton Mifflin).

3. AMERICAN HISTORY SINCE 1825. Professor CHITWOOD. C 8.30  
G 305

This survey course on the second half of American history includes a study of social and economic life as well as political development, emphasis being laid upon the period from 1825 to 1860.

Texts: *The Riverside History of the United States*; Vol. III, Dodd, *Expansion and Conflict*; Vol. IV, Paxson, *The New Nation* (Houghton Mifflin).



## HOME ECONOMICS

1. MATERIALS AND METHODS IN HOME ECONOMICS. Miss ZUILL.  
C 8.30 G 9

This course is planned to meet the needs of elementary, junior high, and senior high school teachers of home economics. It is open to students who completed Home Economics 1 and 2 in 1921 or have equivalent training.

The course includes: a study of the aims and objectives of home economics in the elementary, junior high, and senior high school; the present tendencies in this field of work; the content of the various home economics courses; planning courses of study, with especial attention to home problems, such as household management, household decoration and furnishing, personal finances, family budgets and home care of the sick; methods of presenting these home problems in public school classes; selection of subject material for various units of work; group versus individual instruction in practical work; and analysis of text book and reference material in the new phases of work.

2. TEXTILES AND CLOTHING. Miss ZUILL. C 9.30-11.20 G 9

This course is planned to meet the needs of elementary, junior high, and senior high school teachers of domestic art.

The course includes: a survey of the field of home economics and the place of a course in textiles and clothing in the whole field of home economics; textile fibres and the fundamental principles of textile manufacture; textiles and clothing from the standpoint of art, economics, and hygiene; the relation of textiles to the household furnishings; simple tests for textiles; principles of laundering various textiles and care of textiles; clothing from the standpoint of construction processes; methods of presenting the study of textiles in the public schools; available text-book and reference material on clothing and textiles.

Students are required to make concrete and practical applications of the principles discussed on selected problems.

Laboratory fee: \$1.50.

## ITALIAN

1. ITALIAN LITERATURE. Assistant Professor LEMMI. C 11.30  
G 10

This course offers a study of nineteenth century Italian fiction. In case of sufficient demand, another period or type of literature will be substituted.

2. PRACTICAL ITALIAN. Assistant Professor LEMMI. C 8.30 G 10

The course includes reading in Italian fiction, conversational practice, and prose composition. Italian is the language of the classroom.

Texts: Farina, *Fra le corde d'un contrabasso*, ed. Schobinger and Preston (University of Chicago Press); Giacosa, *Tristi amori*, ed. Altrocchi and Woodbridge (University of Chicago Press); Giacosa, *Una partita a scacchi*, ed. Phelps (University of Chicago Press).

3. ELEMENTARY ITALIAN. Assistant Professor LEMMI. C 9.30  
G 10

This course is planned for students beginning the study of Italian.

Texts: Phelps, *An Italian Grammar* (Ginn); Farina, *Fra le corde d'un contrabasso*, ed. Schobinger and Preston (University of Chicago Press).

## JOURNALISM

1. THE FORMS OF CONTEMPORARY PROSE WRITING. Dr. LITZ. C  
10.30 G 314

A study of the rhetorical principles involved in effective writing, as illustrated by the best contemporary journalism. The work of this course is planned to cooperate with Journalism 2. It may, however, be taken separately.

Text: Cunliffe and Lomer, *Writing of Today*, revised edition (Century Co.).

## 2. THE PRINCIPLES AND PRACTICE OF JOURNALISM. Mr. TOMPKINS. C 11.30 G 314

This course of lectures on journalism and practical exercises in newspaper work includes discussions of the journalistic style, news stories, the reporter and his work, the departments of a modern newspaper, and the technical processes of publication.

The course is given in co-operation with *The Sun*, Baltimore. Members of the class will have the opportunity to study the making of a newspaper in practice, to use the plant of *The Sun* as a laboratory for such study, and to write under the direction and criticism of a member of its editorial staff. Towards the close of the session in 1921, *The Sun* issued "The Hot Times, vol. 1, no. 1," a miniature newspaper, which was produced as a laboratory exercise by the students in Journalism. This special feature of the course will be continued.

Three scholarships have been provided by *The Sun* to be awarded to students taking Journalism 1 and 2 and any other related course. Applications, with detailed statements of training and experience, should be filed with the Director prior to Saturday, July 1. The awards will be made about July 17.

## MANUAL AND INDUSTRIAL ARTS

### 1. BENCH WORK IN WOOD. Mr. GAITHER. C 8.30-10.20 B P I 102

This course includes the use of tools and bench work in wood in the upper grades of the elementary schools and in the junior high school, outlining courses, planning equipments, and methods of individual and class exercises.

Advanced work in both hard and soft woods, and instruction in the use of the following machines is included: grinders, speed lathes, band saw, circular saw, and planer.

Teachers of shop work in junior high schools will find this course most helpful.

Laboratory fee: \$3.50.

Note.—Previous training in this work is not required for admission to this course.

### 2. MECHANICAL DRAWING. Mr. GAITHER. C 10.30 B P I 205

This course is designed to meet the special needs of teachers of mechanical drawing in junior high schools, manual training and vocational schools.

Emphasis is placed on the functional value of mechanical drawing to related subjects.

Laboratory fee: \$2.00. Students will provide their own drawing instruments.

### 3. SHEET METAL WORK. Mr. PETTIT. C 8.30-10.20 B P I 202

This course includes instruction in the use of the ordinary materials and machines usually found in sheet metal shops, elementary soldering, laying out of pipe elbows, pails, and small articles. The principles of elementary sheet metal drafting, and working from the student's own drawing are a part of this course.

Laboratory fee: \$3.00.

### 4. ADVANCED SHEET METAL WORK. Mr. PETTIT. C 8.30-10.20 B P I 202

Attention is given to more advanced projects such as pipe intersections, tee joints, elbows, cornice work, drawing elevations and plans; developing patterns and transferring to metal; parallel lines.

Prerequisite: Course 3, or equivalent.

Laboratory fee: \$3.00.

### 5. WOOD PATTERN MAKING. Mr. PETTIT. C 10.30-12.20 B. P. I 101.

This course includes the making of simple patterns in wood; lectures and demonstrations on moulding and actual casting with material that can be used

in any manual training shop. The use of wood-working machines and wood turning is included.

Laboratory fee: \$2.50.

6. ELECTRICAL WORK. Mr. LINK. C 9.30-11.20 B P I 132

A study of the practical applications of magnetism, electrostatics, electric currents, electromagnetism, and electromagnetic induction, with some attention to the underlying principles. Experiments are used freely to show the operation of various types of electrical equipment, such as batteries, telephones, telegraph, motors, generators, electric meters, transformers, radio telegraphy, and telephony.

Laboratory fee: \$2.00.

7. ADVANCED ELECTRICAL WORK. Mr. LINK. C 11.30-1.20. B. P. I. 101

This course provides advanced exercises which will give training in constructing simple electrical appliances, wireless apparatus, wiring circuits, and a certain amount of experimental work with electrical measuring instruments, circuits, apparatus, and calculations.

Laboratory fee: \$3.00.

Note.—Courses 3, 4, 5, 6, and 7 deal with the knowledge and practice necessary for teachers in junior high or vocational schools, and will be given only if a sufficient number register in these courses.

In arranging their schedule, students will note that the courses in Manual and Industrial Arts, with the exception of Course 8, will be given at the Polytechnic Institute, North Avenue and Calvert Street.

8. ELEMENTARY MANUAL ARTS. Mr. GAITHER. C 11.30 M 217

This course includes handwork processes in cardboard, weaving, raffia, sand table work, bookbinding, metal and toy making, suitable for the grades of the elementary school. It presents an organized series of projects in each of the foregoing materials, emphasizing courses, equipments, supplies, and methods of handling the work. Special attention is given to materials and projects suitable for rural schools.

Those desiring training as playground and recreation leaders will find this course especially adapted to their needs.

Laboratory fee: \$3.00.

Note.—Students satisfactorily completing Courses 1 and 8 will be eligible to take the examination for manual training teachers in Baltimore City schools; students satisfactorily completing Course 2 and any two selected from Courses 1 (or 5), 3, and 6, will be eligible to take the practical part of the examination for manual arts teachers in the Baltimore junior high schools; provided they are graduates of secondary schools equal in entrance requirements to the secondary schools of Baltimore.

## MATHEMATICS

1. ADVANCED MATHEMATICS. Dr. MUSSELMAN. G 11.30 G 8

Introduction to the theory of correspondences including a study of linear transformations, quadratic forms and invariants.

2. ADVANCED ALGEBRA. Dr. MUSSELMAN. C 8.30 G 8

Solution of equations; complex numbers; series.

Text: Wilczynski and Slaught, *College Algebra with Applications* (Allyn and Bacon).

3. INTRODUCTION TO CALCULUS. Dr. MUSSELMAN. C 10.30 G 2-3,

Text: Townsend and Goodenough, *Essentials of Calculus* (Holt).

Note.—In case of sufficient demand, a course in analytic geometry will be substituted for Course 3.

## MUSIC

## 1. PUBLIC SCHOOL MUSIC: PRIMARY GRADES. Mr. DENUES. C 9.30 C 120

This course is intended for those who have no special training in public school music methods, and covers the work of the first three grades. Care and development of the child voice; treatment of monotones; ear training; music writing; rote songs; sight-singing; methods of presenting time and tone problems.

Text: Hollis Dann, *Music Course: First Year Music; Second Year Music; Third Year Music; Manual for Teachers, Book I* (American Book Co.).

## 2. PUBLIC SCHOOL MUSIC: INTERMEDIATE GRADES. Mr. DENUES. C 12.30 C 120

This course is intended for teachers, principals and supervisors who have had previous training in public school music methods. It offers the training necessary to give instruction in the subject in the fourth, fifth, and sixth grades. All technical knowledge not essential to the requirements of sight-singing is eliminated. Care and development of the child voice; ear training; melodic invention; song interpretations; relational effects of the scale tones; part singing; time and tone problems.

Text: Hollis Dann, *Music Course: Fourth Year Music; Fifth Year Music; Sixth Year Music; Complete Manual for Teachers* (American Book Co.).

## 3. PUBLIC SCHOOL MUSIC: JUNIOR AND SENIOR HIGH SCHOOLS. Mr. DENUES. C 10.30 C 120

This course for advanced students offers training necessary to give instruction in the subject in grades seven, eight, and nine (junior high school) and senior high school. Special topics include study of outlined courses covering subject matter to be presented; treatment of adolescent voices, testing voices, vocalization, part-singing, chorus conducting, song interpretation, music appreciation.

Text: Hollis Dann, *Music Course: Junior Songs; Complete Manual for Teachers* (American Book Co.); Giddings and Newton, *Junior Song and Chorus Book* (Ginn).

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The Peabody Conservatory of Music of Baltimore is announcing its summer session of six weeks, July 3 to August 12. Its program includes courses in Singing, Piano, Organ, Violin, 'Cello, Composition, Harmony, Form and Analysis, Interpretation, Piano Pedagogy, Theory, Ear Training, and Musical Literature.

Candidates for the degree of Bachelor of Arts or Science may offer for credit courses in music when officially reported by the Conservatory as having been satisfactorily completed, in accordance with the plan of co-operation between the University and the Conservatory.

Circulars containing full particulars will be sent on application to either the University or the Conservatory.

## PHILOSOPHY

## 1. ETHICS: GENERAL AND PRACTICAL. Mr. HAMMOND. C 12.30 G 113

An inquiry into the relations of the problem of happiness to the fundamental ethical problems, and an examination and comparison of several programmatic doctrines as to morality and happiness.

## 2. CONTEMPORARY AMERICAN PHILOSOPHY. Mr. HAMMOND. C 10.30 G 113

A consideration of current thought from the two critical points of view developed by William James and George Santayana.

## POLITICS

1. AMERICAN NATIONAL GOVERNMENT. Professor DEBEL. G and C 11.30 G 320

A survey course on the national government of the United States, including the historical development, structure, and operation of the national government; the constitution; the rights and duties of citizens; the executive; Congress; and the judiciary. Some attention is also paid to party organization and issues. Advanced students will do supplementary work.

Texts: Munro, *Government of the United States* (Macmillan); Reinsch, *Readings on American Federal Government* (Ginn).

2. AMERICAN STATE AND LOCAL GOVERNMENT. Professor DEBEL. G and C 12.30 G 320

This course is complementary to Course 1, but may be taken independently. It includes a study of the relation of the state to the nation, state constitutions, the organization and functions of the various departments of state government; popular control through the initiative, referendum, and the recall; reorganization of the state administration and the introduction of the budget system. Attention is also paid to county, township, and city government, home rule, commission government, and the city manager plan. Advanced students will do supplementary work.

Texts: Munro, *Government of the United States* (Macmillan); Reinsch, *Readings on American State Government* (Ginn).

## PSYCHOLOGY

1. THE PSYCHO-PHYSIOLOGY OF SLEEP AND DREAMS. Mr. ISAACS. G 9.30 G 401

A consideration of the physiological and psychological characteristics of sleep and dreams and related phenomena, with critical examination of the theories proposed to explain them.

2. APPLIED PSYCHOLOGY. Mr. ISAACS. G and C 11.30 G 401

Applications of principles and technique of general and experimental psychology to problems of industrial efficiency, vocational guidance and selection, and personal efficiency.

Prerequisite: Course 3, or equivalent.

3. INTRODUCTORY PSYCHOLOGY. Mr. ISAACS. C 8.30 G 401

The fundamental conceptions of psychology are presented with emphasis on experimental methods and results.

## SPANISH

1. SPANISH LITERATURE. Dr. DA CRUZ. G and C 9.30 G 8

Lectures in Spanish and reading in *Don Quixote*. Advanced students will do supplementary work.

Texts: Ticknor, *Don Quixote* (Appleton); Cool, *Spanish Composition* (Ginn).

2. PRACTICAL SPANISH. Dr. DA CRUZ. C 10.30 G 8

Spanish is the language of the classroom. The course includes conversational practice and regular exercises in prose composition. A knowledge of elementary Spanish is prerequisite.

Texts: José Marmol, *Amalia*, ed. Corley (Macmillan); Tamayo, *Lo Positivo*, ed. Harry and De Salvio (Heath); Crawford, *Spanish Composition* (Holt).

3. ELEMENTARY SPANISH. Dr. DA CRUZ. C 12.30 G 8

Grammar, reading, composition, with special stress on pronunciation and oral exercises.

Texts: Crawford, *First Book in Spanish* (Macmillan); Hills, *Spanish Tales for Beginners* (Holt).

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## SCHEDULE

### 8.30—9.20

Education 2  
Education 6  
Education 10  
Education 13  
Education 18  
Education 23  
Education 28  
Education 29  
Education 30  
English Literature 2  
English Literature 4  
French 1  
French 5  
German 3  
History 3  
Home Economics 1  
Italian 2  
Manual and Indust. Arts 1 (8.30—10.20)  
Manual and Indust. Arts 3 (8.30—10.20)  
Manual and Indust. Arts 4 (8.30—10.20)  
Mathematics 2  
Psychology 3

### 9.30—10.20

Biology 1  
Economics 2  
Education 1  
Education 4  
Education 9  
Education 16  
Education 20  
Education 26  
Education 31  
English Composition 2  
English Literature 3  
French 4  
German 2  
Home Economics 2 (9.30—11.20)  
Italian 3  
Manual and Indust. Arts 1 (continued)  
Manual and Indust. Arts 3 (continued)  
Manual and Indust. Arts 4 (continued)  
Manual and Indust. Arts 6 (9.30—11.20)  
Music 1  
Psychology 1  
Spanish 1

### 10—10.50

Chemistry 2, M., W., F.  
Chemistry 3, Tu., Th.

### 10—11.50

Chemistry 1

### 10.30—11.20

Economics 1  
Education 5  
Education 7  
Education 12  
Education 21

Education 25  
English Composition 3  
English Composition 4  
English Literature 1  
French 2  
German 1  
History 2  
Home Economics 2 (continued)  
Journalism 1  
Manual and Indust. Arts 2  
Manual and Indust. Arts 5 (10.30—12.20)  
Manual and Indust. Arts 6 (continued)  
Mathematics 3  
Music 3  
Philosophy 2  
Spanish 2

### 11.30—12.20

Education 3  
Education 8  
Education 15  
Education 19  
Education 22  
Education 27  
French 6  
Geography  
History 1  
Italian 1  
Journalism 2  
Manual and Indust. Arts 5 (continued)  
Manual and Indust. Arts 7 (11.30—1.20)  
Manual and Indust. Arts 8  
Mathematics 1  
Politics 1  
Psychology 2

### 12.30—1.20

Biology 2  
Chemistry 4  
Economics 3  
Education 11  
Education 14  
Education 17 A  
Education 17 B  
Education 24  
English Composition 1  
French 3  
Manual and Indust. Arts 7 (continued)  
Music 2  
Philosophy 1  
Politics 2  
Spanish 3

### 1.30—2.20

Education 32

### 2.30—4.20

Biological Laboratory  
Chemical Laboratory  
Education 33

NOTE.—Classes will meet regularly on Saturday, July 8.

# THE JOHNS HOPKINS UNIVERSITY

B A L T I M O R E

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A FACULTY OF 449 PROFESSORS, ASSOCIATES, INSTRUCTORS, AND LECTURERS

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GRADUATE SCHOOL OF ARTS AND SCIENCES  
DEGREES A. M. AND PH. D.  
(Open to Men and Women)

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GRADUATE SCHOOL OF MEDICINE  
DEGREE M. D.  
(Open to Men and Women)

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COLLEGE OF ARTS AND SCIENCES  
DEGREE A. B.  
(Open to Men)

---

SCHOOL OF ENGINEERING  
DEGREES B. ENG. AND S. B. IN CHEM.  
(Open to Men)

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COLLEGE COURSES FOR TEACHERS  
DEGREE S. B.  
(Open to Men and Women)

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SCHOOL OF HYGIENE AND PUBLIC HEALTH  
DEGREES D. P. H., S. D. AND S. B. IN HYG.  
(Open to Men and Women)

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SUMMER COURSES  
WITH A. M., A. B., AND S. B. CREDITS  
(Open to Men and Women)

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